## SERVICE MANUAL

AEP Model

Chassis No. SCC-A99A-A

Australian Model Chassis No. SCC-B22A-A

West Germany Model

Chassis No. SCC-B19A-A



#### **SPECIFICATIONS**

Note: The service manuals for RM-668 have been issued separately.

Color system

PAL, SECAM, NTSC and NTSC<sub>4,43</sub> systems,

switched automatically

Picture tube

Trinitron tube

Approx. 54.5 cm (21 inches)

(50.6 cm picture measured diagonally)

100-degree deflection, AG pitch 0.55 mm

Resolution

Video input: 420 TV lines RGB inputs: 640 × 200 dots

(2000 characters)

Color temperature

9300°K

Frequency response

10 MHz (-3 dB, RGB)

5 MHz (-3 dB, composite video)

Horizontal linearity

Less than +7%

Vertical linearity

Less than ±8%

Horizontal: +500 Hz

Line pull range

Overscan of the picture

Vertical: -8 Hz

Less than +7%

Convergence

Central area: within 1.0 mm Periphery: within 1.8 mm

LINE A/B, VTR inputs

VIDEO IN:

LINE A/B: BNC connector

Composite video, 1 Vp-p ±6 dB, sync

negative, 75-ohm termination

switchable

VTR: 8-pin connector

Composite video, 1 Vp-p ±6 dB, sync

negative, 75-ohm terminated

AUDIO IN:

LINE A/B: Phono jack

-5 dBs, more than 47 kilohms

VTR: 8-pin connector, -5 dBs, more

than 47 kilohms

LINE A/B outputs (loop-through outputs)

VIDEO: BNC connector

AUDIO: Phono jack

Monitor outputs VIDEO: BNC connector

Composite video, 1 Vp-p

AUDIO: Phono jack

Less than 1 kilohm

Digital RGB inputs RGB: D-sub 9-pin connector

(See "Signal assignment".)

AUDIO: Phono jack

-5 dBs, more than 47 kilohms

AV connector 21-pin connector

(See "Signal assignment".)

Speaker terminals 8 ohms

Control S input/output

Minijack, 5 Vp-p

Power output 7W + 7W at 8 ohms

Power requirements

220 - 240 V AC, 50/60 Hz

Power consumption

140 W

Dimensions

Approx.  $516 \times 409 \times 482 \text{ mm (w/h/d)}$ 

incl. projecting parts and controls

Weight Approx. 30.6 kg

Supplied accessory

Remote commander RM-668, with 2 R6 batteries.....1

Optional accessories

TV stand SU-538, SU540

Speaker system SS-X6A, APM-X5A

- Continued on page 2 -

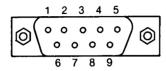
TRINITRON COLOR VIDEO MONITOR SONY





## SIGNAL ASSIGNMENT

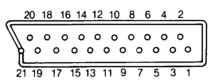
DIGITAL RGB connector (D-sub 9-pin)



Digital signal (TTL level)

Pin No.	Signal assignment	
1	Ground	
2	Ground	
3	Red input	
4	Green input	
5	Blue input	
6	Intensity input	
7	No connection	
8	H. sync input (positive/negative)	
9	V. sync input (positive/negative)	

AV connector (21-pin)



Pin No.	Signal	Signal level
1	Audio output B (right)	Standard level: 0.5 Vrms Output impedance: Less than 1 k ohm*
2	Audio input B (right)	Standard level: 0.5 Vrms Input impedance: More than 10 k ohms*
3	Audio output A (left)	Standard level: 0.5 Vrms Output impedance: Less than 1 k ohm*
4	Ground (audio)	
5	Ground (blue)	
6	Audio input A (left)	Standard level: 0.5 Vrms Input impedance: More than 10 k ohms *
7	Blue input	0.7 V ±3 dB, 75 ohms, positive
8	Function select (AV control)	High state (9.5 – 12 V): Peri mode Low state (0 – 2 V): TV mode Input impedance: More than 10 k ohms Input capacitance: Less than 2 nF

Pin No.	Signal	Signal level
9	Ground (green)	
10	Open	
11	Green input	(Same as Pin 7)
12	Open	
13	Ground (red)	
14	Ground (blanking)	
15	Red input	(Same as Pin 7)
16	Blanking input	High state (1 – 3 V) Low state (0 – 0.4 V) Input impedance: 75 ohms
17	Ground (video output)	
18	Ground (video input)	
19	Video output	1 V ±3 dB, 75 ohms, positive Sync: 0.3 V (±3 dB)
20	Video input	1 V ±3 dB, 75 ohms, positive Sync: 0.3 V (±3 dB)
21	Common ground (plug, shield)	

<sup>\*</sup> at 20 Hz - 20 kHz

Design and specifications subject to change without notice.

## **TROUBLESHOOTING**

If these symptoms occur when you begin operation, follow the suggestions below.

SYMPTOMS	CORRECTIONS
No controllable keys although the POWER switch is turned on.	Press the CONTROL key.
No indication appears although the CONTROL key is pressed.	• Set the MANUAL CONTROL switch on the rear panel to ON.
Remote control is not possible.	• Set the REMOTE CONTROL switch on the rear panel to ON.

If the problem still cannot be solved, contract your authorized Sony dealer.

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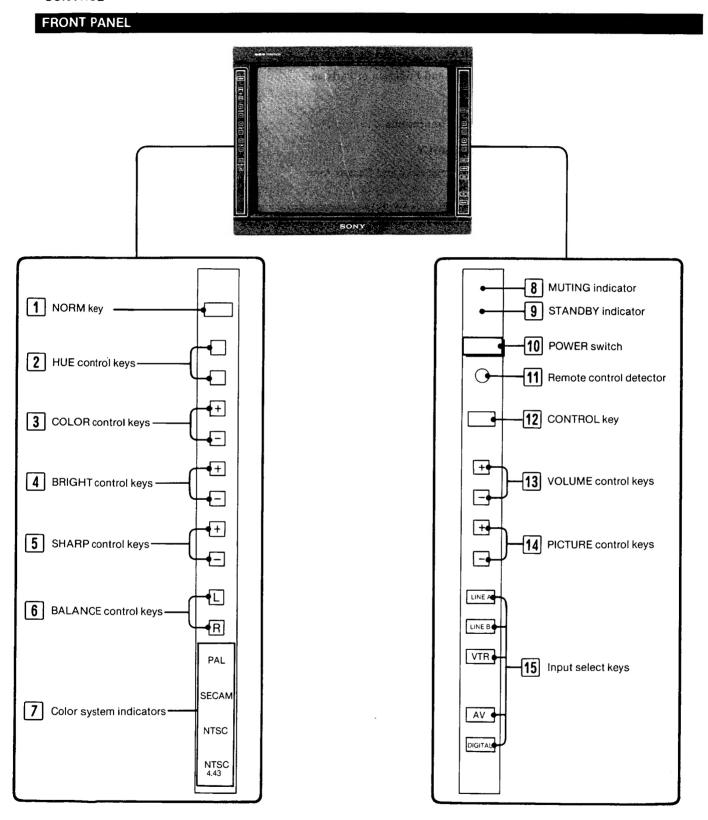
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## SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK NO. ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

# SECTION 1 GENERAL

1-1. LOCATION AND FUNCTION OF PARTS AND CONTROL



• Press CONTROL key after power is turned on to illuminate the control keys or indicators.

The following control keys are effective only when MANUAL CONTROL switch on the rear panel is set to ON.

### 1 NORM (normal) key

Press this key to return to the standard setting.

• This key is effective only for the control keys on the left.

## 2 HUE control keys

Press the GRN (green) key to make the skin tones greenish or the PUR (purple) key to make it purplish.

 These control keys are effective for the NTSC and NTSC<sub>4,43</sub> color systems only.

### **3** COLOR control keys

Press the + key to make the color intensity vivid or the - key to make it pale.

#### 4 BRIGHT (brightness) control keys

Press the + key to make the picture brighter or the - key to make it darker.

## 5 SHARP (sharpness) control keys

Press the + key to obtain a sharp picture or the - key to obtain a soft picture.

#### 6 BALANCE control keys

Press the L key to increase the sound volume of the left speaker or the R key to increase the sound volume of the right speaker.

### Color system indicators PAL, SECAM, NTSC, NTSC<sub>4 43</sub>

The color system of the input signal is automatically selected and the corresponding indicator illuminates. When the input signal is monochrome, no color system indicator illuminates.

## **8 MUTING indicator**

Illuminates while the sound is muted.

• Muting is controlled only by the Remote Commander.

#### 9 STANDBY indicator

Illuminates when the power is turned off by the Remote Commander.

#### 10 POWER switch

Press this switch to turn the monitor on.

Press this switch again to turn it off.

- When the monitor is turned on, the settings of the monitor are the same as when it was last turned off.
- For a few seconds after turning on the monitor the color of picture may vary because the white balance is adjusted at this time. This is not a problem.

#### 11 Remote control detector

The beam from the Remote Commander is received here.

#### 12 CONTROL key

Press this key to illuminate the keys and indicators on the front panel.

Press this key again to extinguish them.

#### 13 VOLUME control keys

Press the + key to raise the volume or the - key to lower it

#### 14 PICTURE control keys

Press the + key to make the contrast, color intensity and brightness stronger or the - key to make them weaker.

## 15 Input select keys

## LINE A, LINE B, VTR, AV, DIGITAL

Select the input source connected to the LINE A, LINE B, VTR, AV or DIGITAL RGB connector.

When a key is pressed:

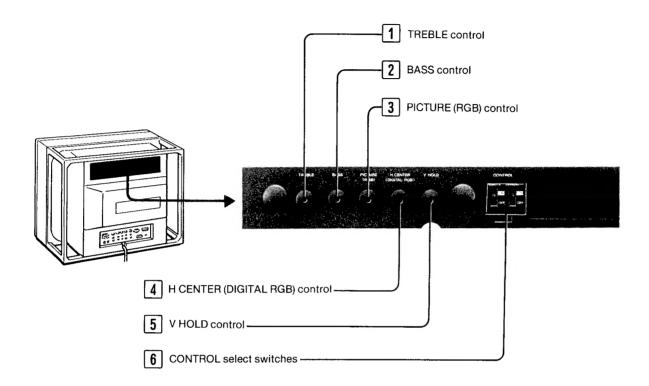
- it blinks if the other indicators and keys on the front panel illuminate.
- it illuminates if they are extinguished.

#### **Key illumination**

For the keys 1 through 7, 13 and 14:

- While each key is pressed, it blinks, indicating that adjustment is going on.
- During adjustment, if the adjustment value reaches the limit, the blinking speed becomes slower.

## **REAR PANEL**



## 1 TREBLE control

Turn clockwise for more treble (high tone), or counterclockwise for less.

## 2 BASS control

Turn clockwise for more bass (low tone), or counterclockwise for less.

## 3 PICTURE (RGB) control

Adjust the contrast of the RGB signals connected to the AV connector or the DIGITAL RGB connector.

## 4 H CENTER (DIGITAL RGB) (horizontal centering) control

When the picture of DIGITAL RGB input is decentered horizontally, correct it with this control.

## 5 V HOLD (vertical hold) control

When the picture rolls vertically, correct it with this control.

## 6 CONTROL select switches

Normally set to ON.

#### **REMOTE CONTROL switch**

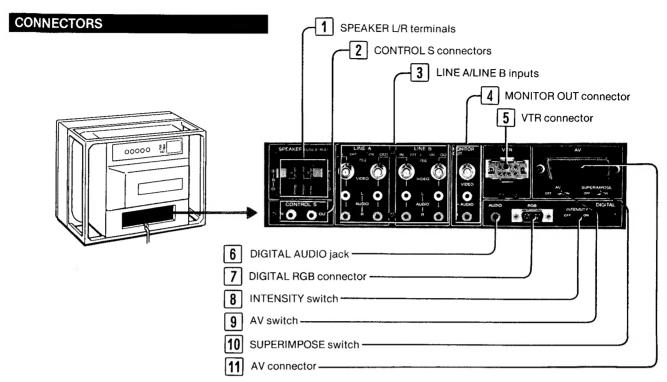
Set this switch to ON to control the monitor with a Remote Commander.

If this switch is set to OFF, the remote control is not possible.

## **MANUAL CONTROL switch**

Set this switch to ON to control the monitor manually. To make the manual control of the control keys or switches on the front panel impossible, extinguish the indicators by pressing the CONTROL key on the front panel and set this switch to OFF.

(However remote control is possible if the REMOTE CONTROL switch is set to ON.)



#### 1 SPEAKER L/R terminals

Connect to speakers with 8 to 16 ohm impedance.

#### 2 CONTROL S IN/OUT connectors

Connect to the CONTROL S connectors of a VTR or another monitor.

It is then possible to control the whole system with a single Remote Commander.

## 3 LINE A/LINE B inputs

### VIDEO IN connector (BNC type) AUDIO L/R IN jacks (phono jack)

Connect to the video and audio outputs of a VTR or a camera

## VIDEO OUT connector (BNC type) AUDIO L/R OUT jacks (phono jack)

Loop-through outputs of the IN connector and jacks. Connect to the video and audio inputs of another monitor.

#### 75-ohm termination switch

When only the VIDEO IN connector is used (nothing is connected to the VIDEO OUT connector), set this switch to ON.

When both connectors are used together for a loopthrough connection, set this switch to OFF.

## 4 MONITOR OUT connectors

## VIDEO connector (BNC type) AUDIO L/R jacks (phono jacks)

The video and audio signals supplied from the LINE A, LINE B, VTR or AV input selected by the front panel input select keys are output from these connectors.

Connect to the video and audio inputs of another monitor, VTR, etc.

## 5 VTR connector (8-pin)

Connect to a VTR with an 8-pin TV connector.

## 6 DIGITAL AUDIO jack (phono jack)

Connect to the audio output of an audio source to listen to the sound from the connected audio source while viewing the picture from the DIGITAL RGB connector.

## 7 DIGITAL RGB connector (9-pin, D-sub)

Connect to the digital RGB output of a microcomputer.

#### 8 INTENSITY switch

Normally set to OFF. When a microcomputer provided with intensity output is connected, set to ON for 16-color display.

## 9 AV switch

Set to ON so that the monitor is automatically switched to the AV input when a signal is input from the AV connector, taking priority over the LINE A, LINE B or VTR input previously selected by the input select keys on the front panel. Set to OFF to select the AV input manually by pressing the AV input select key.

## 10 SUPERIMPOSE switch

Normally set to ON.

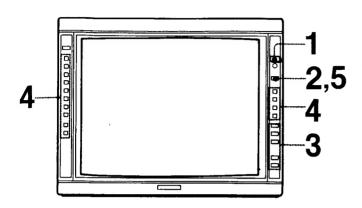
Set to OFF to display the analog RGB signal from the microcomputer connected to the AV connector.

## 11 AV connector (21-pin)

Connect to the 21-pin multiconnector of an 8 mm video cassette recorder or the analog RGB multioutput connector of a microcomputer.

#### 1-2. OPERATION

## **DISPLAYING THE PICTURE**



- 1 Depress the POWER switch.
  One of the input select keys illuminates.
- 2 Press the CONTROL key. The selected input select key blinks and all control keys on the front illuminate. (If the control keys do not appear, set the MANUAL CONTROL switch on the rear to ON.)
- 3 Press the desired input select key. The pressed key blinks and the picture from the selected input is displayed on the screen and the sound is heard through the speakers. (For selecting the AV or DIGITAL input, see "Notes on
- 4 Adjust the picture and sound.
- 5 Press the CONTROL key to extinguish the controls keys so that only the selected input select key illuminates.

## **SUPERIMPOSING**

input selection".)

To superimpose the data from the microcomputer connected to the AV connector over the picture, proceed as follows. (The data should be processed for superimposition on the microcomputer.)

- 1 Set the SUPERIMPOSE switch to ON.
- 2 Press the LINE A, LINE B or VTR input select key to display the picture on which the data is to be superimposed on the monitor screen.
- 3 Press the AV input select key.
  The data is superimposed over the picture.
- 4 Adjust the contrast of the superimposed data with the PICTURE (RGB) control.

## NOTES ON INPUT SELECTION

## AV input and SUPERIMPOSE switch

Set the SUPERIMPOSE switch on the rear as follows, according to the signal supplied to the AV connector.

SUPERIMPOSE switch	Signal to be displayed
ON	<ul> <li>To display the composite video signal from an 8 mm video cassette recorder, etc.</li> <li>To perform superimposition. (See "SUPERIMPOSING".)</li> </ul>
OFF	To display the analog RGB signal from a microcomputer, etc. In this case, the sync signal should be supplied to pin 20 of the AV connector.

- When the AV input select key is pressed with the SUPERIMPOSE switch ON, the previously selected LINE A, LINE B or VTR input select key blinks together with the AV key.
- When it is pressed with the SUPERIMPOSE switch OFF, only the AV key blinks.

## AV input and AV switch

When the AV switch on the rear is set to ON, the monitor is automatically switched from the LINE A, LINE B or VTR input to the AV input if a signal is input to the AV connector. Set the AV switch to OFF to select the AV input manually by pressing the AV input select key.

#### **DIGITAL** input

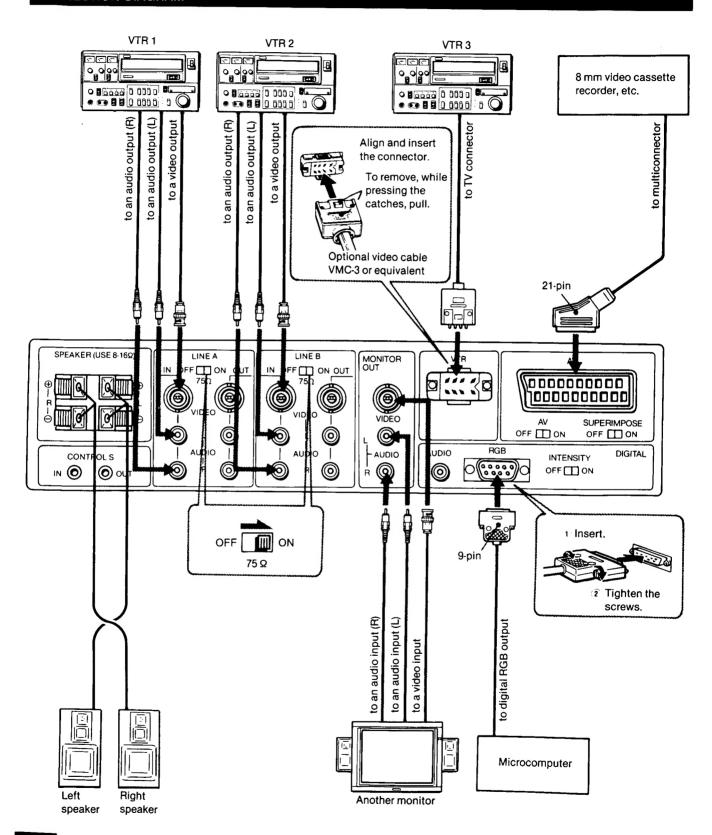
- To display the digital RGB signal from a microcomputer provided with intensity output in 16 colors, set the INTENSITY switch on the rear to ON.
- If necessary, center the picture from the DIGITAL RGB connector with the H CENTER control on the rear panel.

## Note

The COLOR, HUE and SHARP control keys do not function when the DIGITAL input is selected or the AV input is selected with the SUPERIMPOSE switch OFF.

#### 1-3. SYSTEM CONNECTIONS

## CONNECTION DIAGRAM

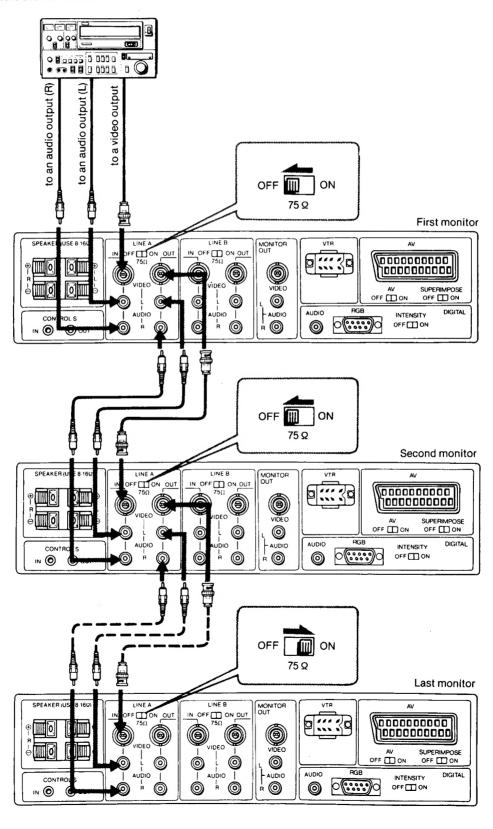


## Note

- When a microcomputer has an analog RGB output connector, connect it to the AV connector.
- When a microcomputer has only a composite video output connector, connect it to the LINE A or LINE B VIDEO IN connector.

## CONNECTING SEVERAL MONITORS

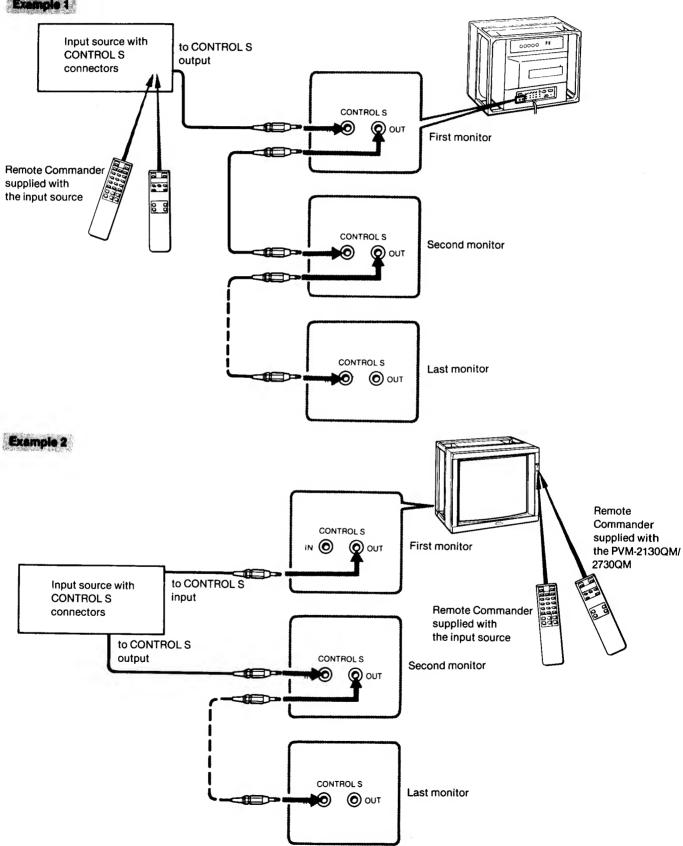
A loop-through connection is convenient for monitoring the same signal on ther monitors. Up to 10 monitors can be connected. It is recommended to use a signal distributor when several monitors are connected.



## CONTROL S CONNECTION

The following connections allow remote control of several monitors and a VTR through a single monitor.

## Exemple 1

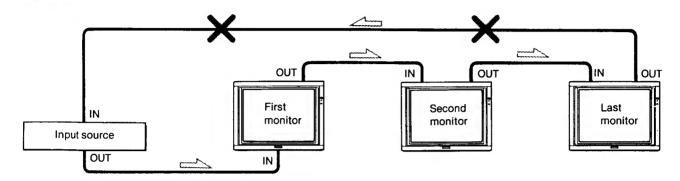


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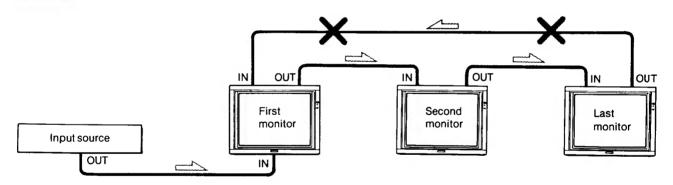
## Note

Do not use the following loop connections.

## Example 1



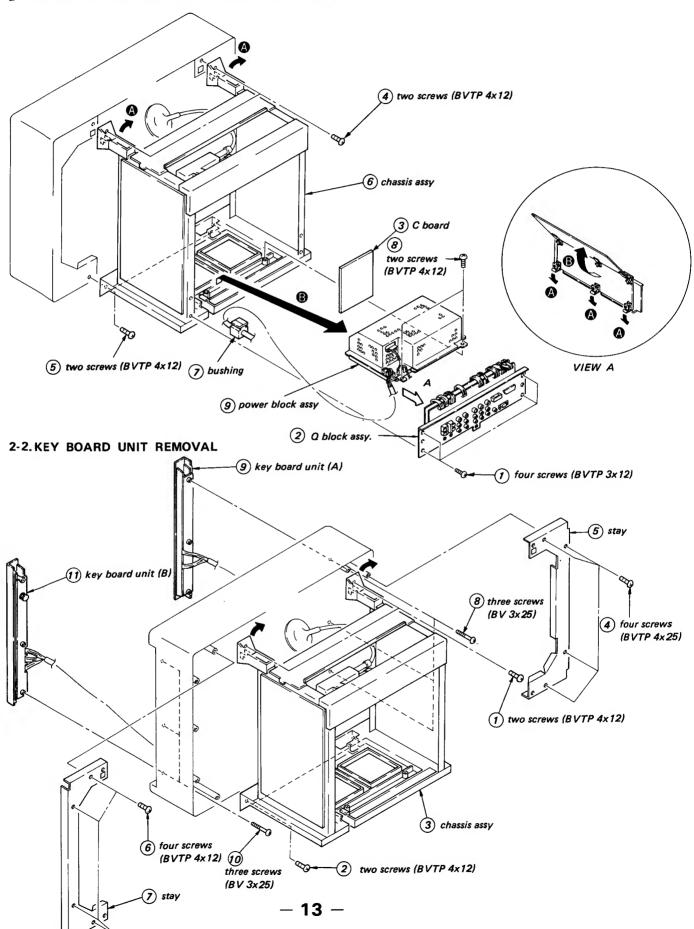
## Example 2



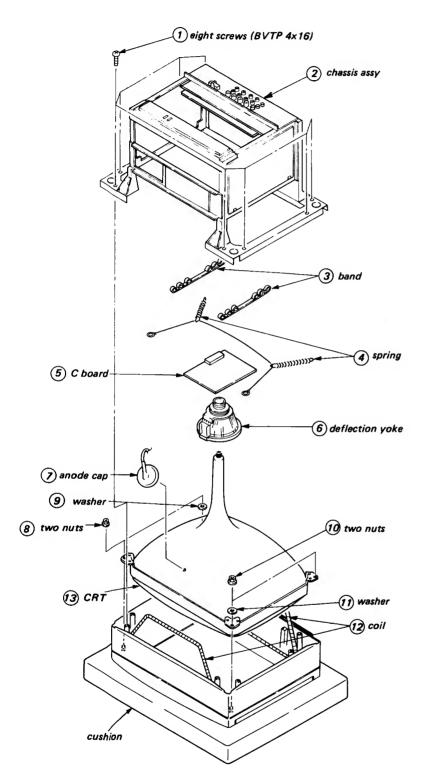
CONTROL S signal flow

# SECTION 2 DISASSEMBLY

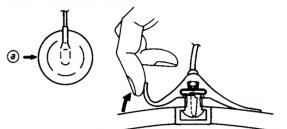
## 2-1. POWER BLOCK ASSY AND CHASSIS ASSY REMOVAL



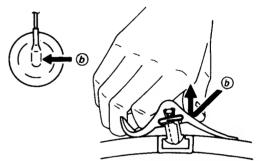
## 2-3. PICTURE TUBE REMOVAL



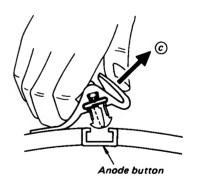
## • Removing Procedures



1) Turn up one side of the rubber cap in the direction indicated by the arrow (a)



② Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow **b** 



3 When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©

# SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. White Balance

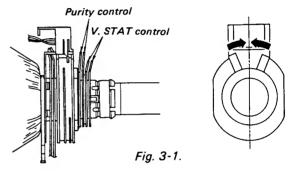
Note: Test Equipment Required

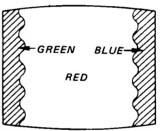
- 1. Color-bar/Pattern Generator
- 2. Degausser

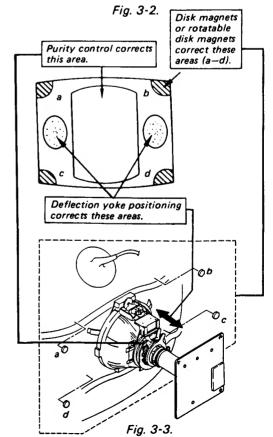
## 3-1. BEAM LANDING

#### Preparation:

- Input the RASTER pattern.
- Before starting, degauss the entire screen.
- 1. Turn on set power supply and input a RASTER signal.
- 2. Evenly degauss the entire screen.
- 3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Figure 3-1.
- 4. Input a red signal.
- 5. Move the deflection yoke back, and adjust the purity control so that RED is in the center and GREEN and BLUE are at the sides, evenly. (Figure 3-2.)
- Move the deflection yoke forward so that the entire screen is red.
  - If the deflection yoke is pushed all the way to the CRT then moved slightly back, landing adjustment is easier.
- 7. Substitute GREEN, then BLUE for RED in step 4 and check landing.
- 8. Rotate RED, GREEN and BLUE once each and check landing.
- 9. When landing is not right, adjust the purity control and use magnets as shown in Figure 3-3, then repeat steps 7 and 8.
- 10. When a magnet is used, be sure to perform step 2, and tighten deflection yoke mounting screw loosely.



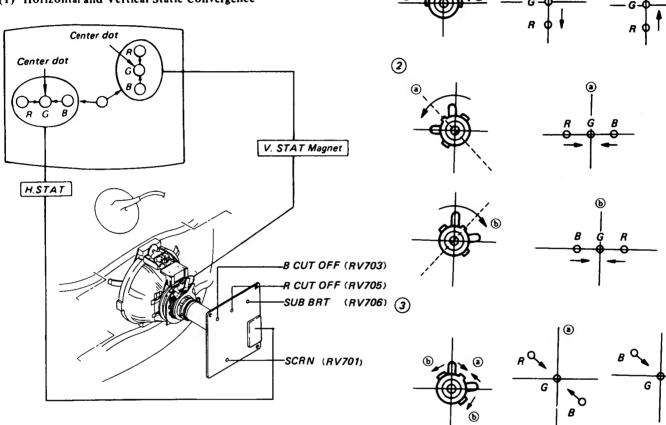




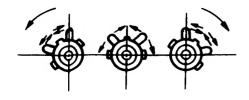
#### 3-2. COVERGENCE

#### Preparation:

- Before starting, perform FOCUS, H. SIZE, V. SIZE and V. LIN adjustments.
- Set BRIGHTNESS control to fully counterclockwise.
- Feed in the dot pattern.
- (1) Horizontal and Vertical Static Convergence



- 1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen (Horizontal movement)
- 2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen (Vertical movement)
- 3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



If blue dot does not coincide with red and green dots, perform following steps.

4. When the V. STAT magnet is moved in the direc-

dots move as shown below.

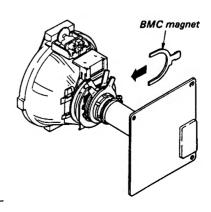
(1)

tion of arrow a and b, Red, Green and Blue

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.

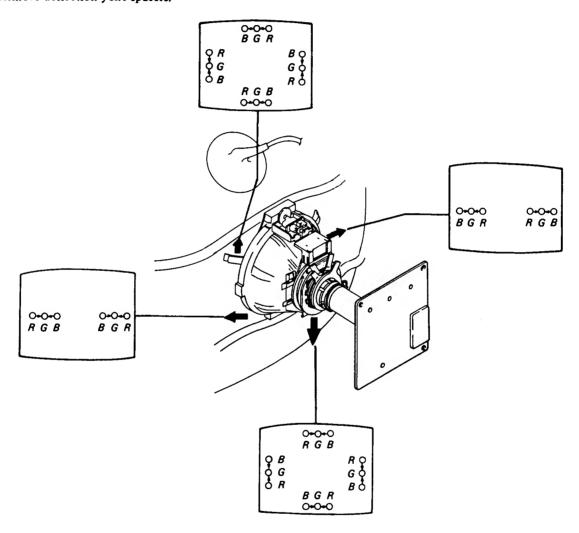


## (2) Dynamic Convergence Adjustment

## Preparation:

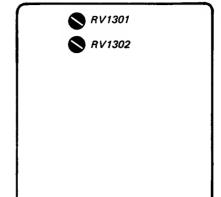
- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
- 1. Loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.



#### 3-3. WHITE BALANCE ADJUSTMENT

- 1) SCREEN (G<sub>2</sub>) adjustment
- 1. Confirm that  $G_1$  line voltage is  $30\pm5$  Vdc.
- Adjust CUT OFF(R,B) so that R,B cathode voltage becomes 180 V DC.
   Adjust with G<sub>2</sub> VT immediately prior to the disappearing of the luminscent line.
- 2) W/B adjustment
- 1. Input a all white signal.
- 2. Set the PICTURE control to minimum and turn the BRIGHT control mechanical center.
- 3. Set R CUT OFF(R,B) and RV703 (B CUT OFF) to minimum.
- Turn RV701 (SUB BRT) slowly to obtain a faintly visible cross-hatch.
   Note the color tjat first becomes visible by turning RV701.
- Adjust the other two BKG controls for best white balance (neutral gray) of the faint crosshatch.
- Set the PICTURE control fully clockwise.
   Observe the screen and adjust the RV1301 (G,H/L), RV1302 (B,H/L) controls for best white balance. (B Board)
- 7. Repeat steps 1, through 7.

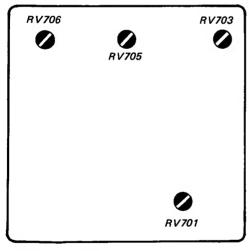


RV1301 (G.H/L) RV1302 (B.H/L)

(Component side)

**B** Board

## C Board



RV705 (R CUT OFF) RV706 (SUB. BRT) RV701 (SCRN)

RV703 (B CUT OFF)

(Component side)

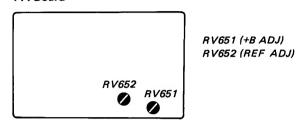
## SECTION 4 CIRCUIT ADJUSTMENTS

## 4-1. FA BOARDS ADJUSTMENT

#### +B Line Adjustment

- 1. Supply 220V ac to with variable auto-transformer.
- 2. Adjust RV651 so that the +B line is 140V±0.5V.
- 3. Adjust RV652 so that the pin (1) or IC651 is  $32\pm0.1V$ .

## FA Board



(Component side)

## 4-2. D BOARD ADJUSTMENTS

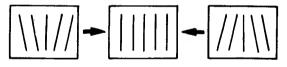
#### Horizontal Position Adjustment

 Check that H center moves to the right and left with horizontal position VR (RV555), then adjust horizontal position to center.

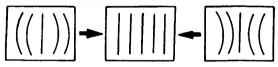
## Picture Distortion Adjustment

Picture distortion adjustment
 Input a signal equivalent to a crosshatch signal.

#### • PIN PHASE (RV553)



• PIN AMP (RV552)



- 2. Adjust RV554 (H.SIZE) so that H.SIZE is best.
- 3. Adjust RV555 (H.CENT) so that horizontal position is center.

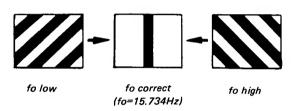
## V.SIZE V.CENT

Adjust RV503 and RV509 for a best vertical SIZE Picture.

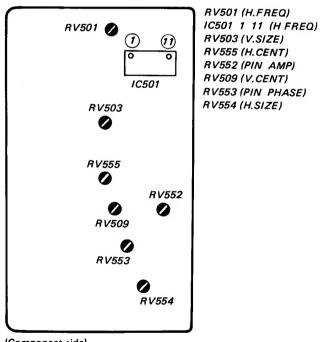
## H.FREQ Adjustment

- 1. Input a color bar signal and short between IC501 pins (1) and (1).

  Also short board IC401 pins (25) and (36).
- 2. Adjust H.FREQ VR (RV501) so that picture flow is as shown in Figure.
- 3. After adjustment, remove the connections in step 1).



#### D Board

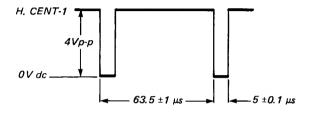


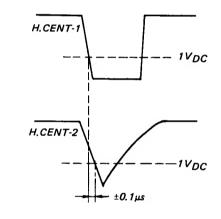
(Component side)

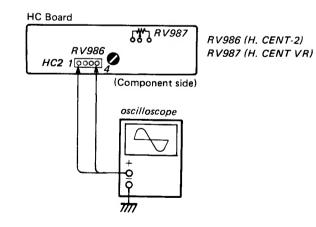
#### 4-3. HC BOARD ADJUSTMENT

## H. CENTER Adjustment (DIGITAL RGB)

- Connect to the digital RGB output connector of a microcomputer.
- 2. Press to select the RGB mode.
- 3. Turn the H. CENT VR (RV987---- Rear control panel) to center position.
- 4. Connect the oscilloscope to pin 4 of HC-2 connector and pin 1 of HC-2 connector.
- 5. Adjust RV986 (H. CENT-2) so that the phase difference level is ±0.1 μsec.



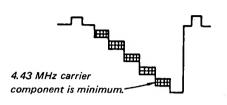




## 4-4. B BOARD ADJUSTMENTS

#### Y Chroma Adjustment

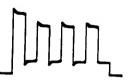
- 1. Input a PAL color bar signal.
- 2. Connect an oscilloscope to pin (35) of IC301, and adjust so that chroma component is minimum on pin (35) of IC301 waveform while tracking with L451 (4.43) MHz



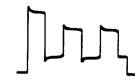
- 3. Input a NTSC (3.58) color bar signal.
- 4. Connect an oscilloscope to pin (35) of IC301 and adjust so that croma component is minimum on pin (35) of IC301 waveform while tracking with L452.

### COLOR BALANCE Adjustment

- Input a SECAM color bar signal and set PICTURE to maximum.
  - Press "RESET" to set color to standard state.
- Observe blue output (TP33) waveform on the osilloscope and adjust L421 (B-Y) so that the black portion of the color bar is the same level as the pedestal.



 Observe blue output (TP31) waveform on the oscilloscope and adjust L405 (R-Y) so that the black portion of the color bar is the same level as the pedestal.



ANT 1.

2.

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APC 4.43 1. 2. 3. 3.58 4. 5.

ACC

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PVM-2130QM RM-668

CT358 (3.58) CT443 (4.43)

L405 (R-Y)

L421 (B-Y)

RV302 (ACC)

RV318 (S. HUE)

RV303 (φ)

T301 (DAT)

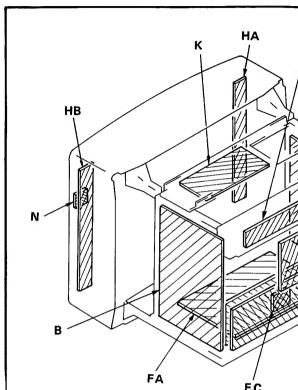
L451 (4.43 MHz)

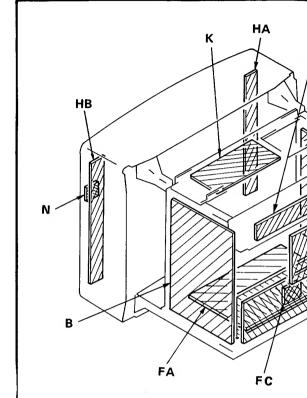
L452 (Y/CHROMA)

PVM-2130QM RM-668

## SECTION DIAGRAM

## 5-1. CIRCUIT BOARDS LOCATION





## 4-4. B BOARD ADJUSTMENTS

#### Y Chroma Adjustment

connector of a

r control panel)

HC-2 connector

he phase differ-

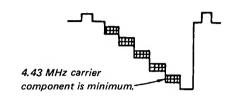
--- 5 ±0.1 μs

1V<sub>DC</sub>

86 (H. CENT-2)

87 (H. CENT VR)

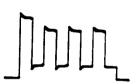
- 1. Input a PAL color bar signal.
- 2. Connect an oscilloscope to pin (35) of IC301, and adjust so that chroma component is minimum on pin (35) of IC301 waveform while tracking with L451 (4.43



- 3. Input a NTSC (3.58) color bar signal.
- 4. Connect an oscilloscope to pin (35) of IC301 and adjust so that croma component is minimum on pin (35) of IC301 waveform while tracking with L452.

#### COLOR BALANCE Adjustment

- 1. Input a SECAM color bar signal and set PICTURE to maximum.
- Press "RESET" to set color to standard state.
- 2. Observe blue output (TP33) waveform on the osilloscope and adjust L421 (B-Y) so that the black portion of the color bar is the same level as the pedestal.



3. Observe blue output (TP31) waveform on the oscilloscope and adjust L405 (R-Y) so that the black portion of the color bar is the same level as the pedestal.



#### ANTI-PAL, LINE CRAWLING Adjustment

- 1. Input a PAL color bar signal and set PICTURE to maximum.
  - Press "RESET" to set COLOR, HUE and BRT to standard state.
- 2. Confirm that there is no color on the first anti-PAL signal frames at the right and left of the picture. If sides while tracking with RV303.
- 3. Adjust T301 (DAT) for minimum line crawling.
- 4. Confirm the anti-PAL adjustment in 2, and repeat 3, and 1 if necessary.

## APC Adjustment

## 4.43 adjustment

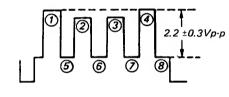
- 1. Input a PAL color bar signal.
- 2. Short pin (11) and pin (12) on IC301.
- 3. Adjust CT443 to get color sync.

#### 3.58 adjustment

- 4. Input a NTSC (3.58 MHz) color bar signal.
- 5. Adjust CT358 to get color sync.

## ACC, HUE CENT Adjustment

- 1. Input a PAL color bar signal and set PICTURE maxi-
- 2. Adjust RV302 (ACC ADJ) so that blue output (TP33) waveform is as shown in figure.



- 3. Input a NTSC (3.58 or 4.43) color bar signal and set PICTURE to maximum.
- Press "RESET" to set COLOR, HUE and BRIGHT-NESS to standard state.
- 4. Adjust RV318 (S. HUE) so that blue output (TP33) waveform is as shown in figure.

## 4-5. SAFETY CHECK ADJUSTMENT

(Component side)

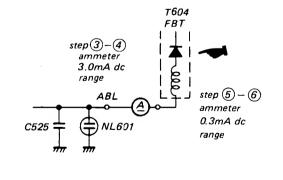
RV302 35 1C301

B Board

R*V303* 

## HOLD DOWN ADJUSTMENT (\*R531)

- 1. Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHTNESS control to maximum.
- 2. Confirm that the voltage of the IC1510 (1) pin is more than 15.78V DC when the set is operating normally with 120V AC supply.
- 3. Adjust ABL current to 1400 ± 30 µA with PICTURE and BRIGHTNESS. (ammeter 3.0mA dc range)
- 4. Confirm that there is less than 18.35V DC where by the raster disappears during operation of hold-down circuit. (HOLD DOWN check point of IC1510 (1) pin)
- 5. Adjust ABL current to 210  $\pm$  3  $\mu$ A with PICTURE and BRIGHTNESS. (ammeter 0.3mA dc range)
- 6. Confirm that there is less than 19.25V DC where by the raster disappears during operation of hold-down circuit. (HOLD DOWN check point of IC1510 (1) pin)
- Note: If the hold-down circuit starts operating in the above case, switch OFF the POWER of the set immediately.
- 7. If above steps is not satisfied, select resistance value of R597 and repeat above steps 1 through 6.



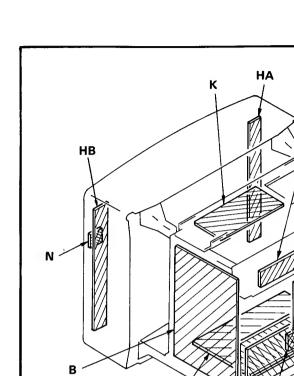
SECTION 5
DIAGRAMS

HC

HD

QB

5-1. CIRCUIT BOARDS LOCATION



FΑ

FC

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PICTURE maxi-

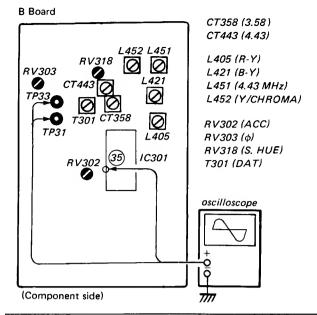
e output (TP33)

-p

ar signal and set

and BRIGHT-

output (TP33)



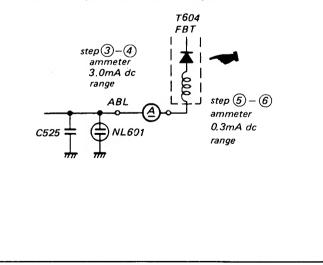
## 4-5. SAFETY CHECK ADJUSTMENT

## HOLD DOWN ADJUSTMENT (\*R531)

- Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHTNESS control to maximum.
- Confirm that the voltage of the IC1510 (1) pin is more than 15.78V DC when the set is operating normally with 120V AC supply.
- 3. Adjust ABL current to 1400 ± 30 μA with PICTURE and BRIGHTNESS. (ammeter 3.0mA dc range)
- 4. Confirm that there is less than 18.35V DC where by the raster disappears during operation of hold-down circuit. (HOLD DOWN check point of IC1510 ① pin)
- Adjust ABL current to 210 ± 3 µA with PICTURE and BRIGHTNESS. (ammeter 0.3mA dc range)
   Confirm that there is less than 19.25V DC where by the
- Confirm that there is less than 19.25V DC where by the raster disappears during operation of hold-down circuit. (HOLD DOWN check point of IC1510 (1) pin)

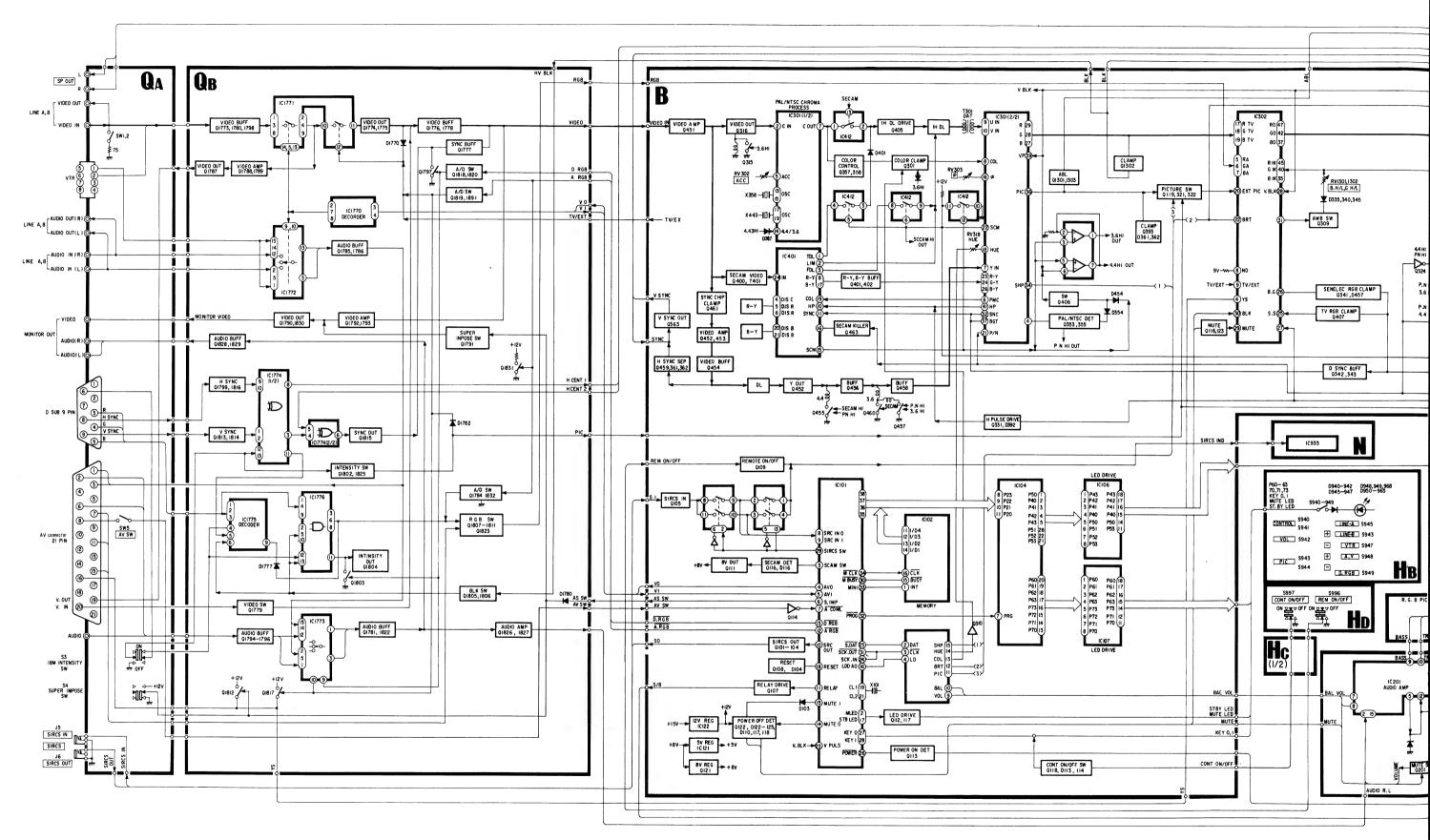
Note: If the hold-down circuit starts operating in the above case, switch OFF the POWER of the set immediately.

7. If above steps is not satisfied, select resistance value of R597 and repeat above steps 1 through 6.

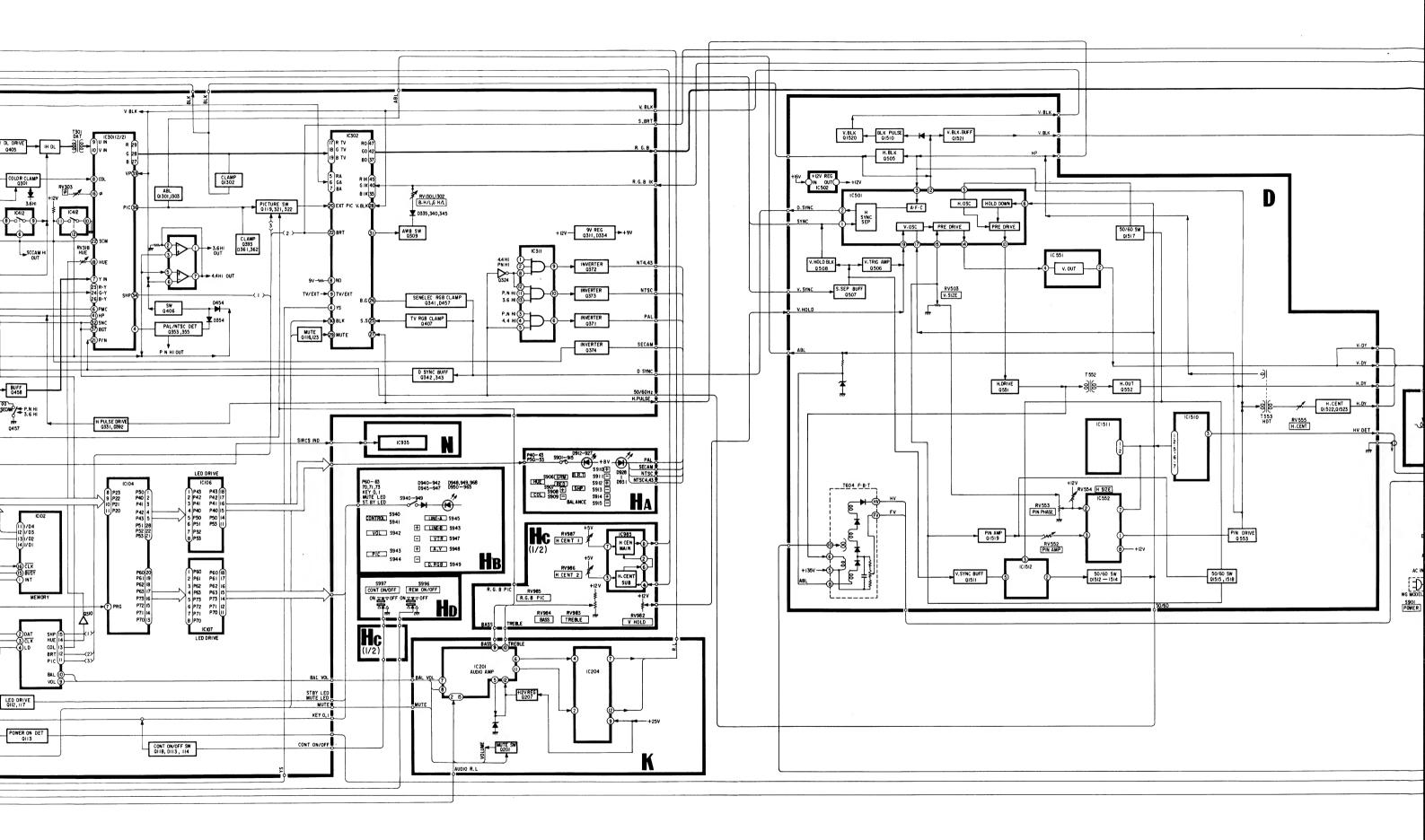


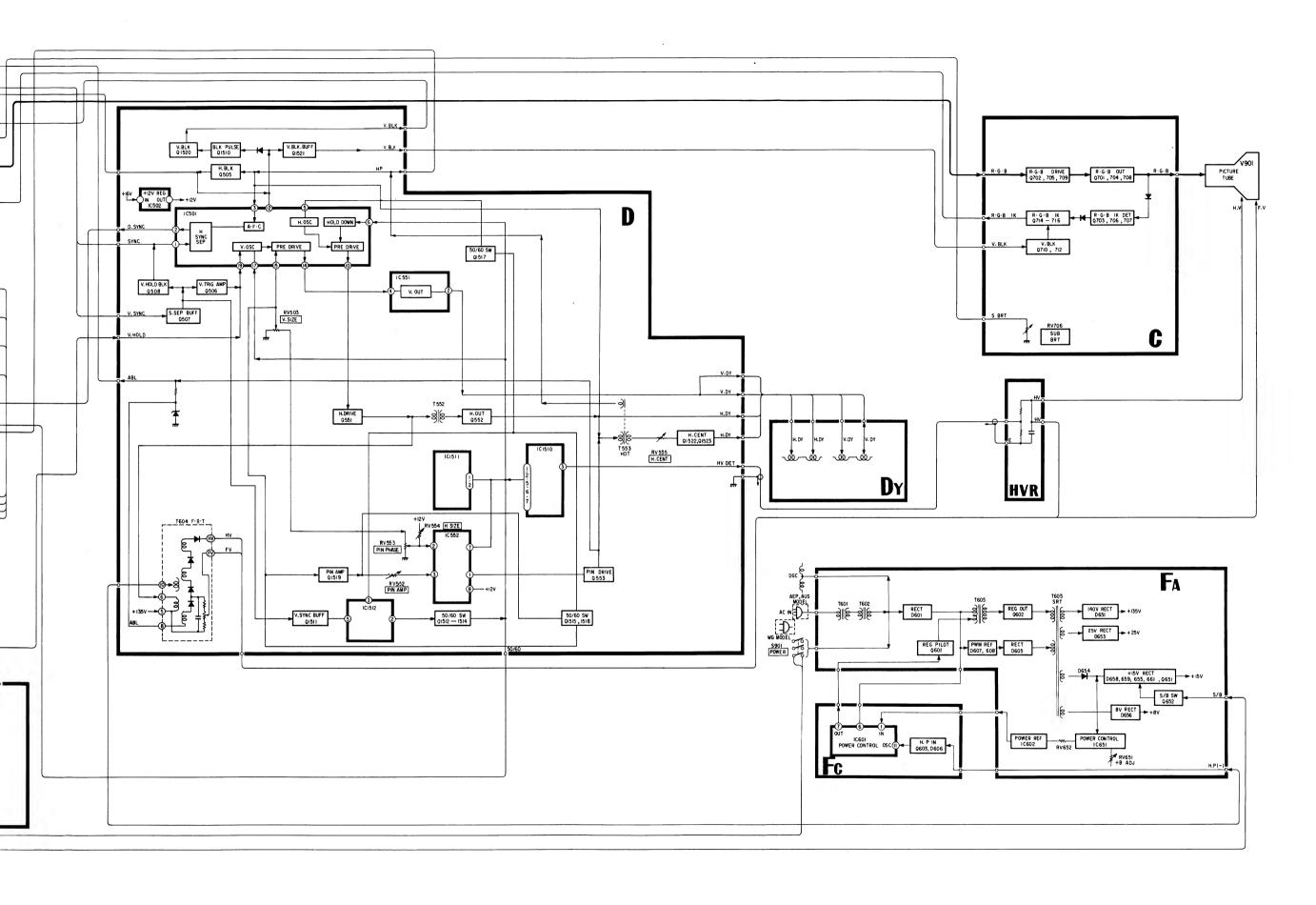
PVM-2130QM PVM-2130QM RM-668

## 5-2. BLOCK DIAGRAM



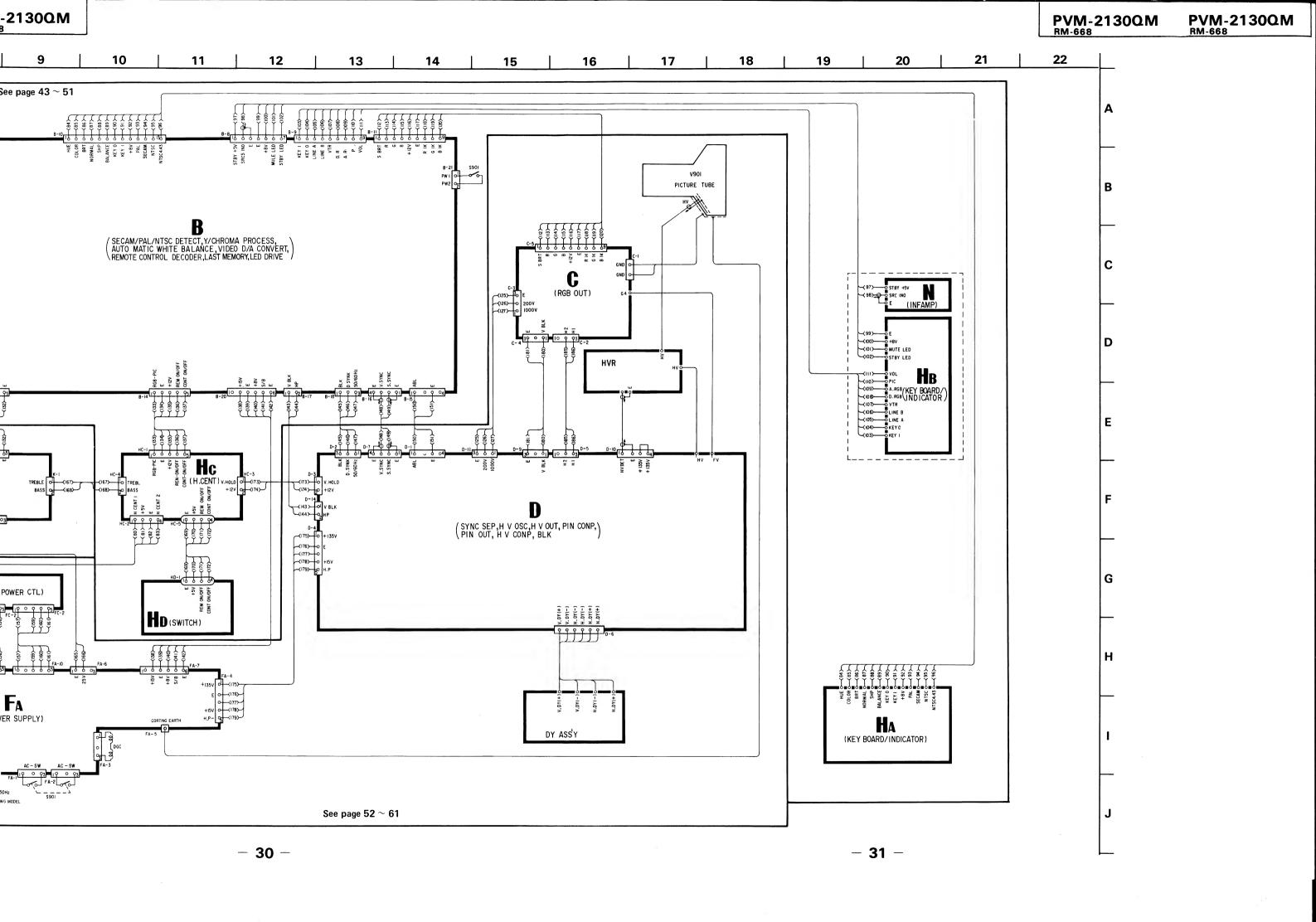
2130QM

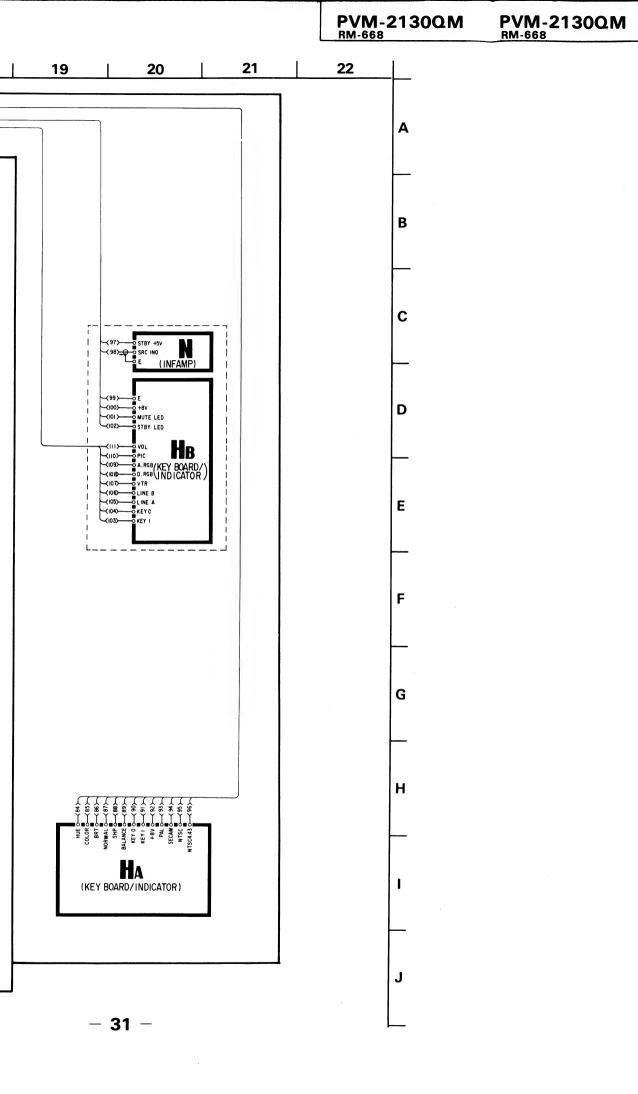




-30-

**- 29 -**





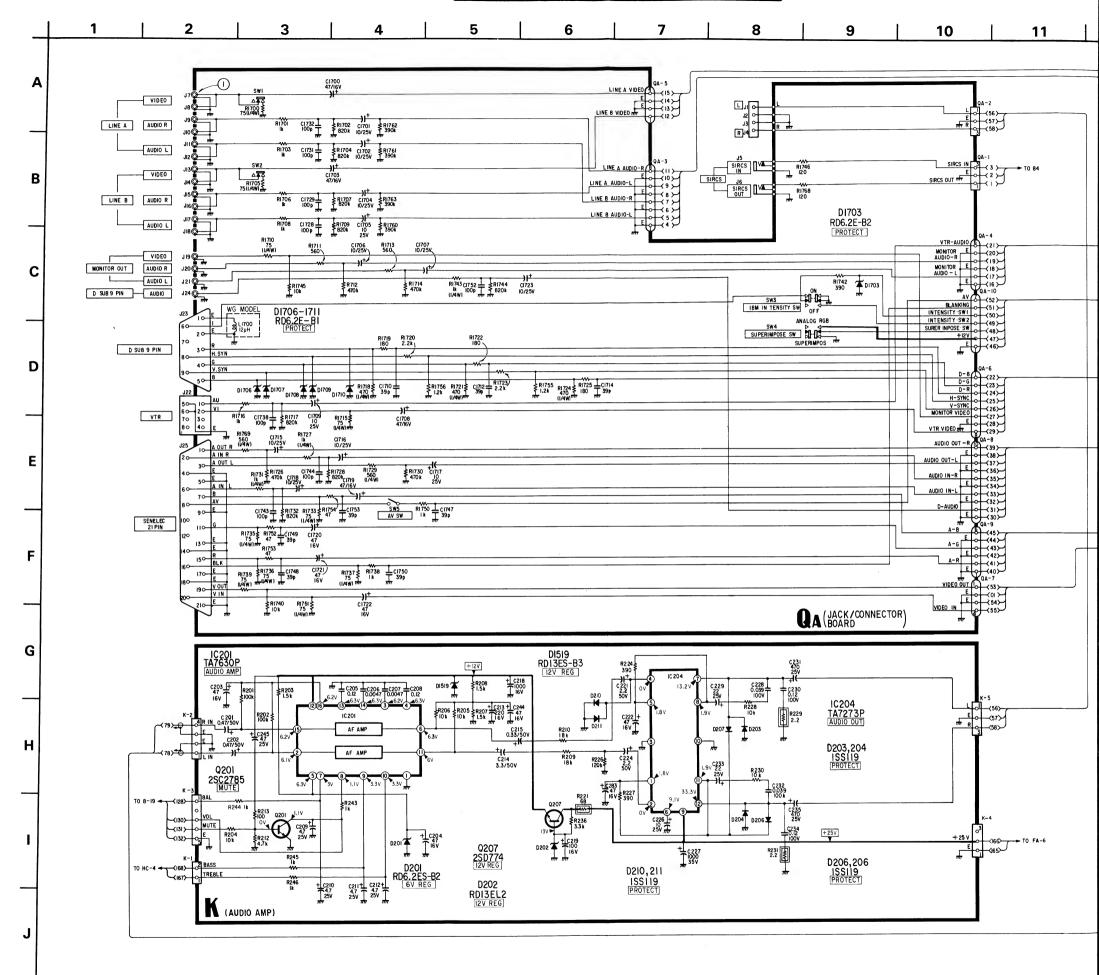
PVM-2130QM RM-668

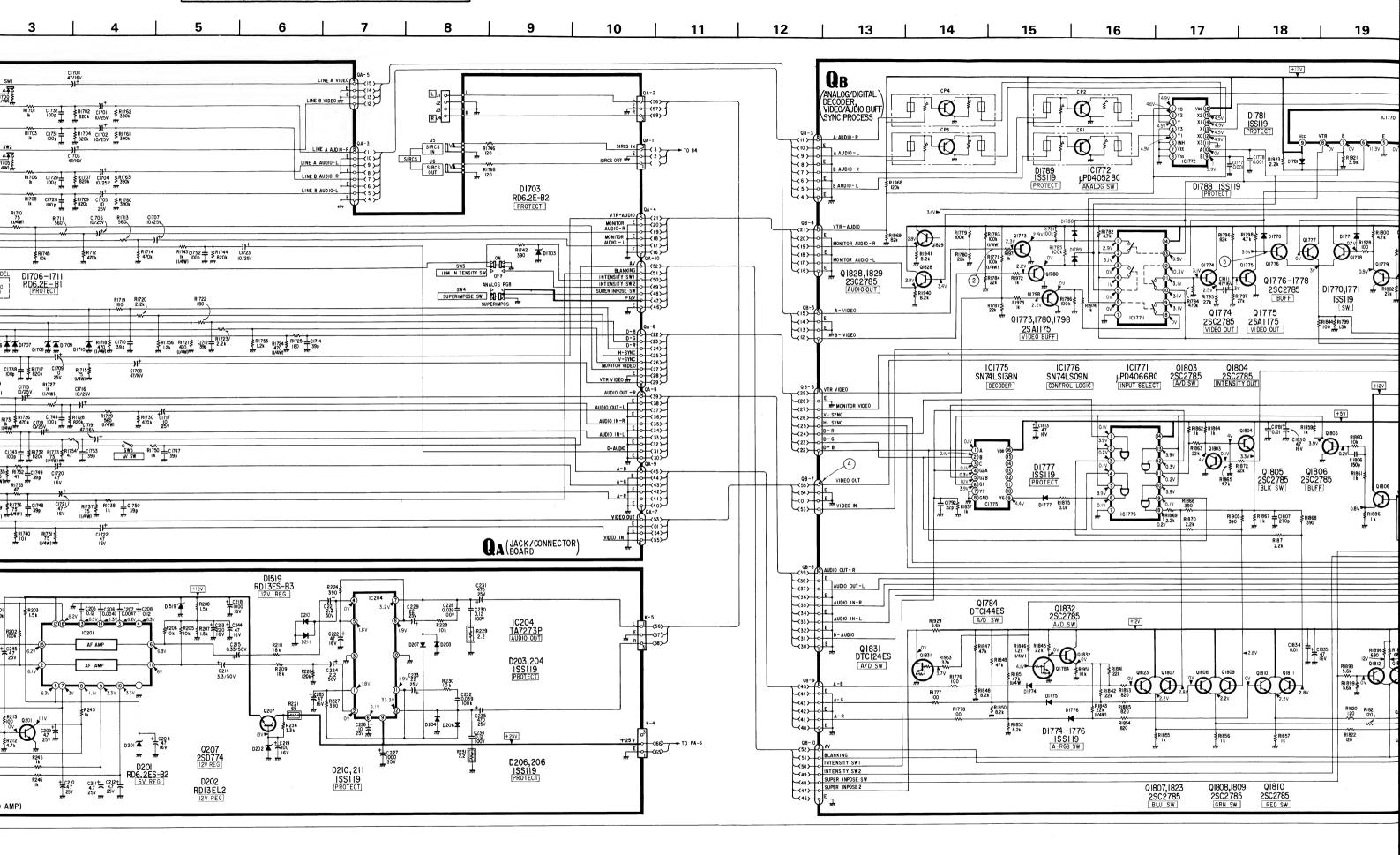
PVM-2130QM PVM-2130QM RM-668

## 5-4. SCHEMATIC DIAGRAM AND PRINTED WIRING BOARDS

#### Note:

- All capacitors are in μF unless otherwise noted.
   50WV or less are not indicated except for electrolytics.
   p : μμF
- All resistors are in ohms. \( \frac{1}{6} \) W unless otherwise noted.
   kΩ: 1000Ω. MΩ: 1000 kΩ
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- internal appropriate : internal appropriate
- Δ : internal component.
- panel designation.adjustment for repair.
- : B+ bus.
- . B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 M $\Omega$  digital multimeter.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken with a color-bar-signal input.
- no mark: with PAL color-bar signal received.
  - ( ) : with SECAM color-bar signal received,
  - < > : with NTSC (3.58) color-bar signal received.
  - [ ] : with NTSC (4.43) color-bar signal received.
- \* : Selected to yield optimum performance.



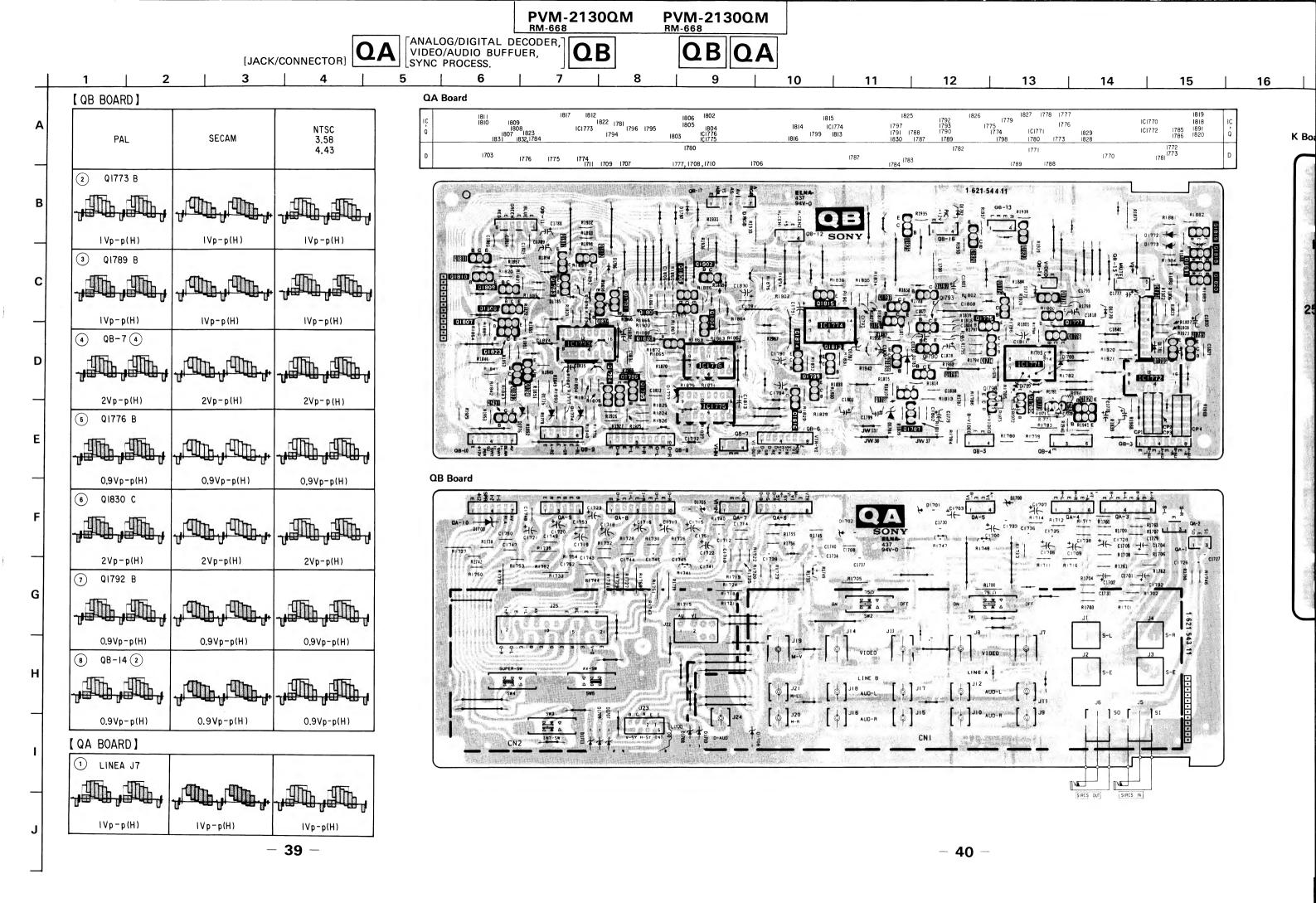


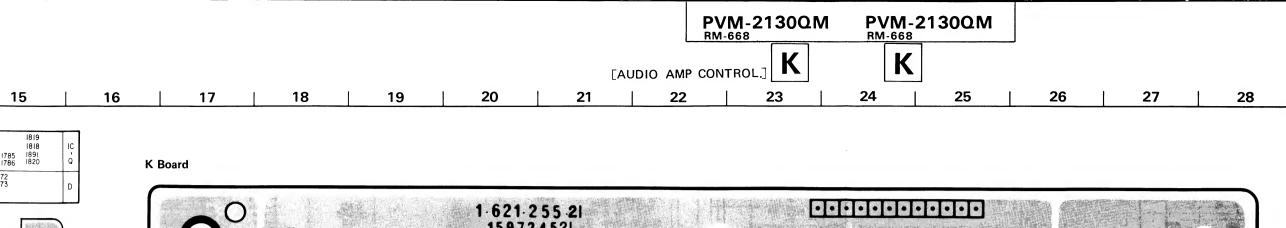
PVM-2130QM PVM-2130QM RM-668 14 15 16 17 18 19 20 21 22 23 24 25 27 26 28 29 +120 + CI820 CI821 CI840 + CI839 16V 7 0.01 7 0.01 7 16V D1772,1773 ISS119 [SW] Q1819,1891 **Q O** 4.5V Q1786
RIBOB RIBOB RIP DTCI24ES A/D SW DI772 V RI879 100k 101/4WI Q1819 R1882 DI78I ISSI 19 PROTECT 01818 4.5V IC1770 LA7910 DECODER R1807 5.6k Q1818,1820 DTCI24ES D RGB J(69) ф Q1785,1786 √68≻ 2SC2785 AUDIO BUFF ₹R1921 3.9k 66 65 65 ICI772 µPD4052BC ANALOG SW DI789 ISSII9 PROTECT DI788 ISSI 19 2.8V QI829 R.1941 R.1940 R.1940 R.1940 R.1940 3.IV | 3. D1771 R1928 4.7 k R1783 100k (I/4W) 2.3V R1771 R1771 R1971 R1971 R1971 2.2V TV/EXT 04 (74) R1780 22k 01797 2 \$R1784 22k 0.9V DI770,1771 ## RI802\$ 0.6v R1942 mm C1803mm(1/4w) 6 2SAI 175 BUFF DI783 EQAOI-06T+ [PROTECT] ISS I I9 Q1797 2SC2785 SW 7 DI784 RD9.IES-B3 PROTECT Q1773,1780,1798 2SA1175 VIDEO BUFF 8 RI844≸RI799 100 ₹ 1.5 k (233) IC1776 SN74LSO9N CONTROL LOGIC ICI775 SN74LSI38N Q1803 2SC2785 [A7D SW] Q1804 2SC2785 INTENSITY OUT µPD4066BC +127 +12V 0 1827 49.3V 2.7V R1938 8.2k 1950 mm 1950 m †] C1813 47 16V DI780 ₹ 1.2k (1/4w) QI813,1814 2SC2785 V SYNC RI901 | RI834 | | H CI800 | 47 | 16V | RI833 DI787 QI805 RI860 ION CI806 ISO6 RI861 RI861 RI861 D1780 ISS119 [SW] 0.7v R1935 8.2k Q1825 Q1825 2SC27 0.7V C1790+ 47 16V RI874 0.1V Q1815 Q1815 2SC2785 SYNC OUT Q1825 2SC2785 INTENSITY SW 0.7y 01799 1 01794 1 01794 1 01794 1 01794 1 01794 **O** RI876 3.5v Q1802 C1791 RI827 \$ Q1799,1816 2SC2785 [H SYNC] Q 1802 DTC 124ES INTENSITY SW H.CENT | 0 (80) RI903 ≱ H.CENT2 # (82) Q1826,1827 2SC2785 AUDIO OUT RI965 ≸ Q1784 DTCI44ES A/D SW +12V R1929 5.6k +121 CI831 + CI832 0.01 7 7 16V R1825 CI833 T 0.01 Q1781 3v RIB96 | RIB92 | CONTROL | RI846 RI845 C C1834 + C1835 + C1835 Q1795 R1805 4V 0 V 0 183 I IC1773 µPC4052BC ANALOG SW R1925 82k R1824 \*\*\*\*\* Q1812,1817 2SC2785 SW \$RI842 RI853 Q1807 Q1808 Q1809 Q1808 Q1810 Q1811 2.8 R1926 \$ + C1789 10 25V Q1781, 1822 2SC2785 AUDIO BUFF ₹RI848 8.2k RI885 820 R1778 R 1927 82k ₹R1852 8.2k D1774-1776 ISSI 19 A-RGB SW Q1794-1796 2SC2785 AUDIO BUFF C1825 0.22/150V R 1855 B 0 (77)

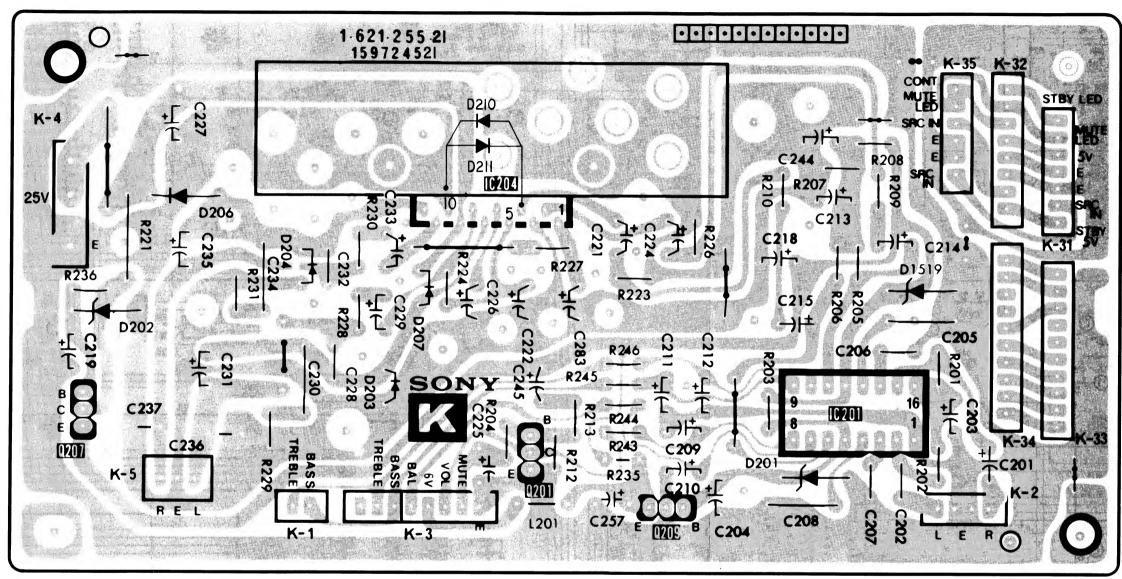
Q1810 2SC2785 RED SW

QI808,1809 2SC2785 GRN SW

Q1807,1823 2SC2785 BLU SW





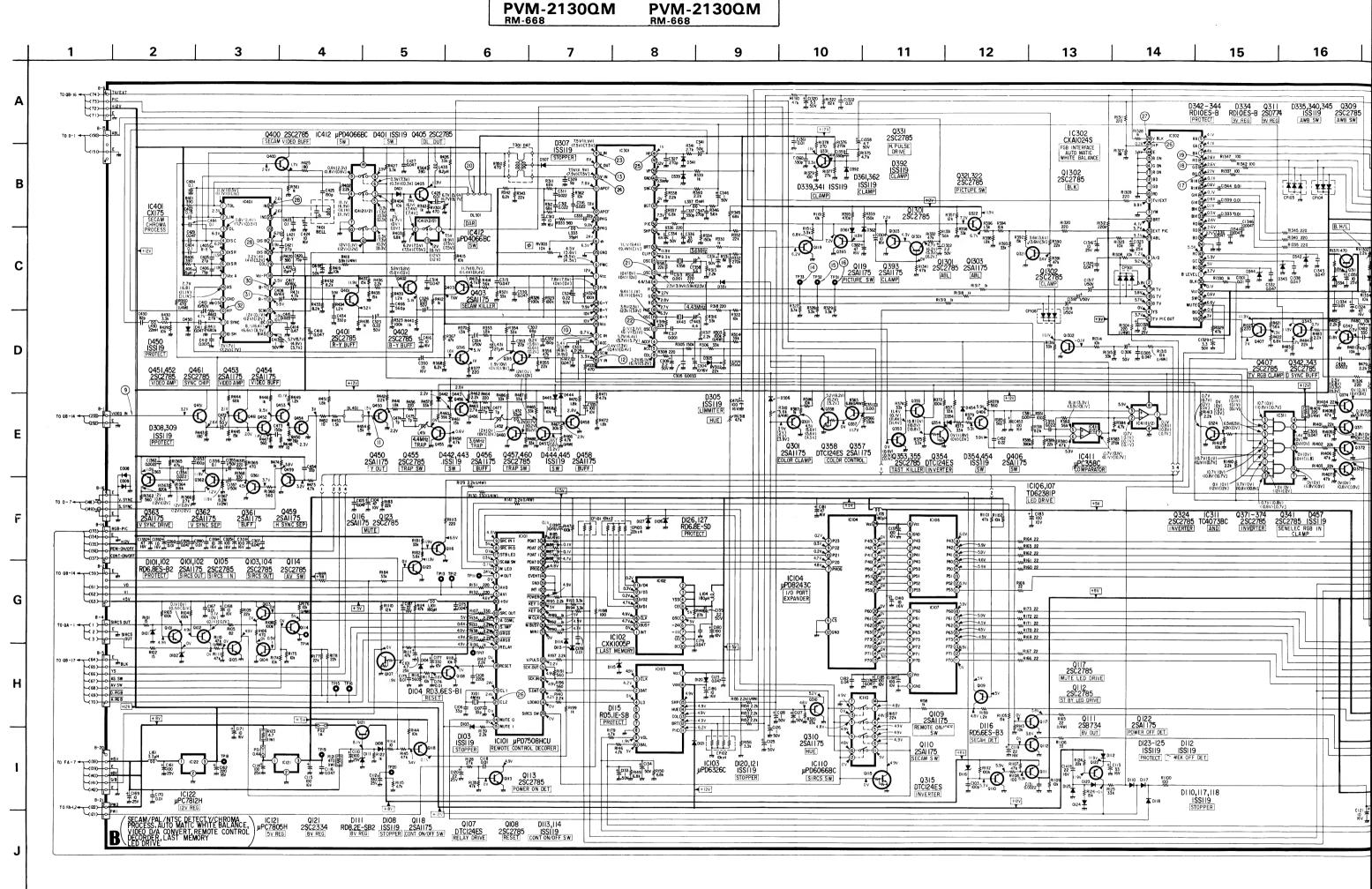


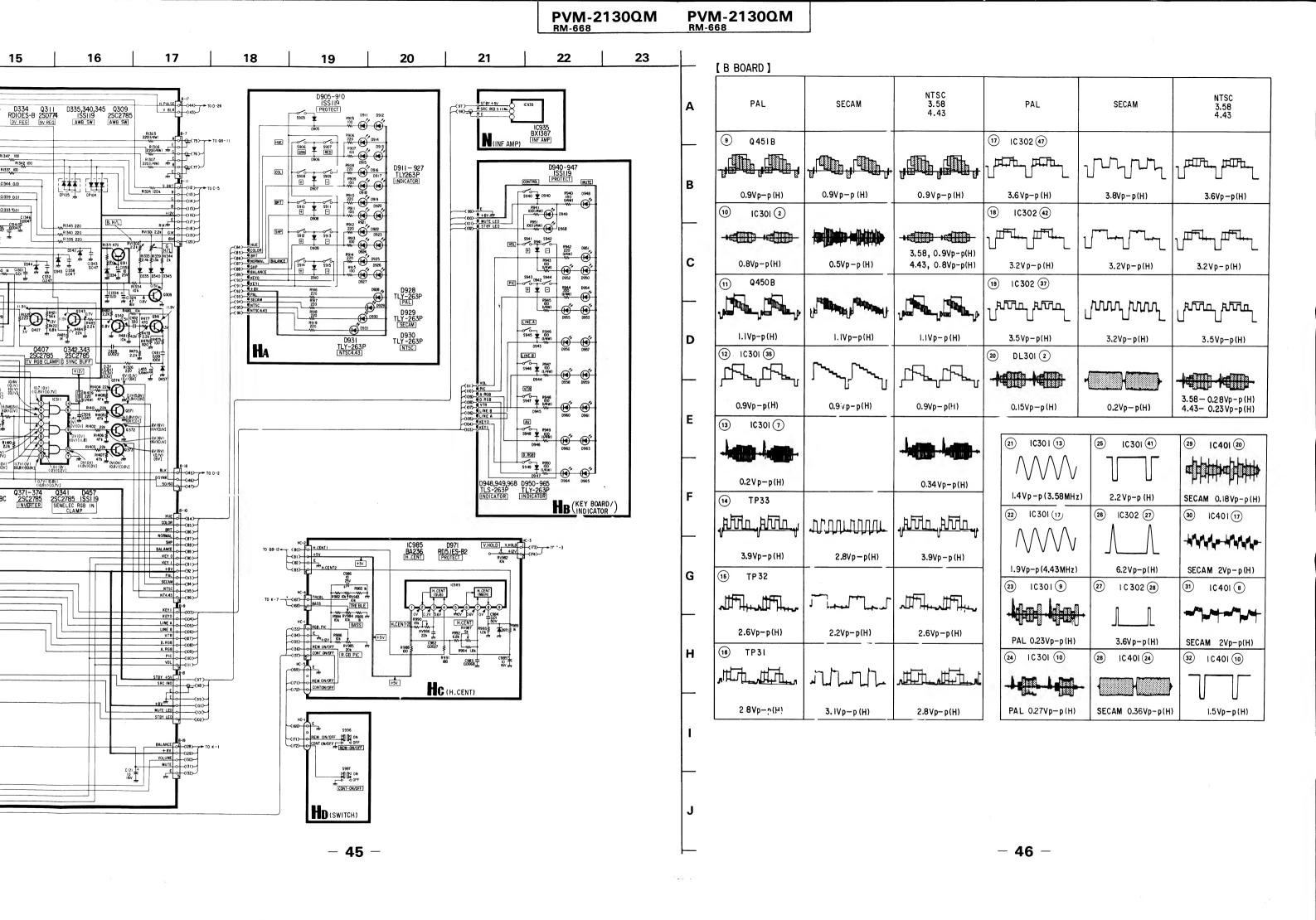
1.621.543.11

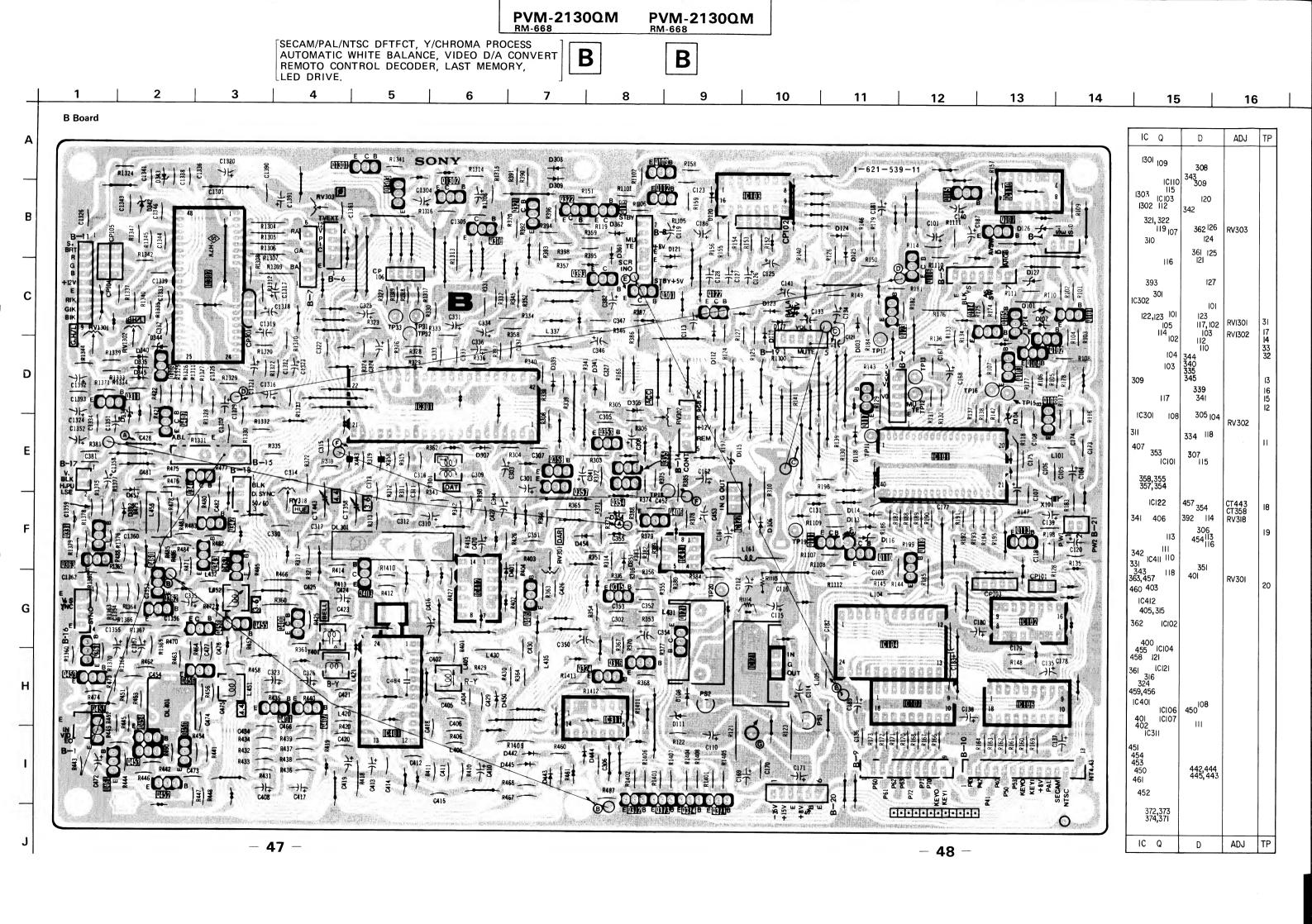
С

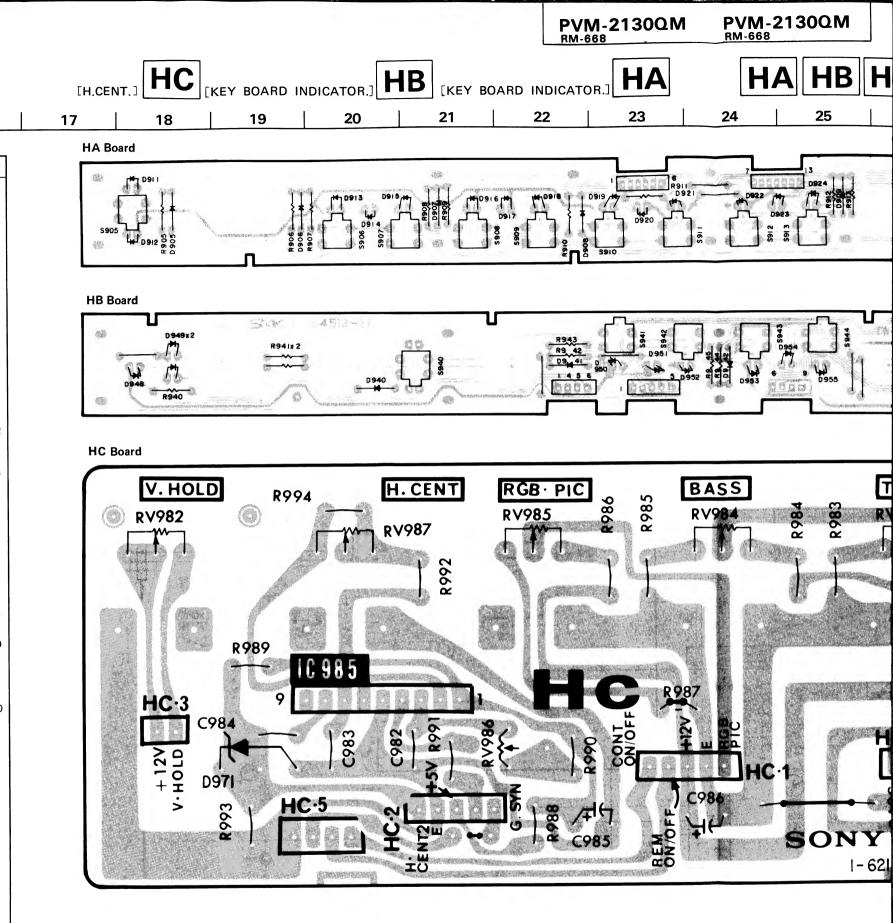
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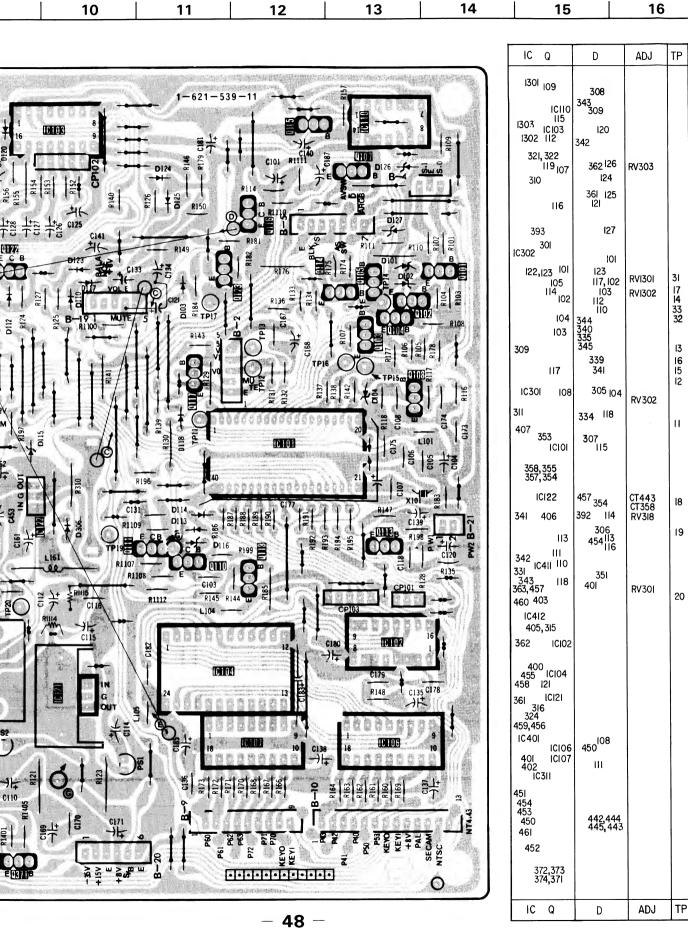
G





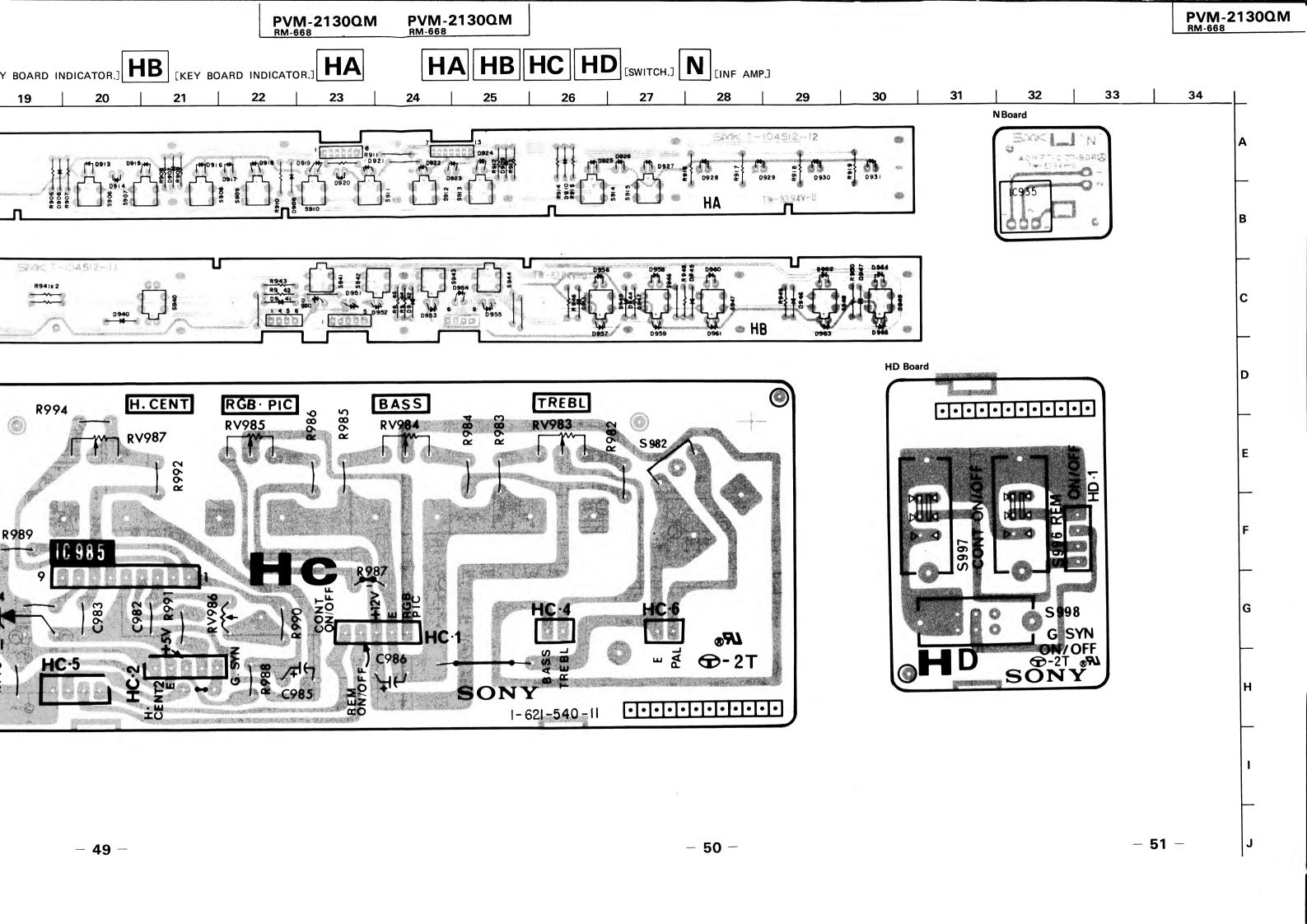






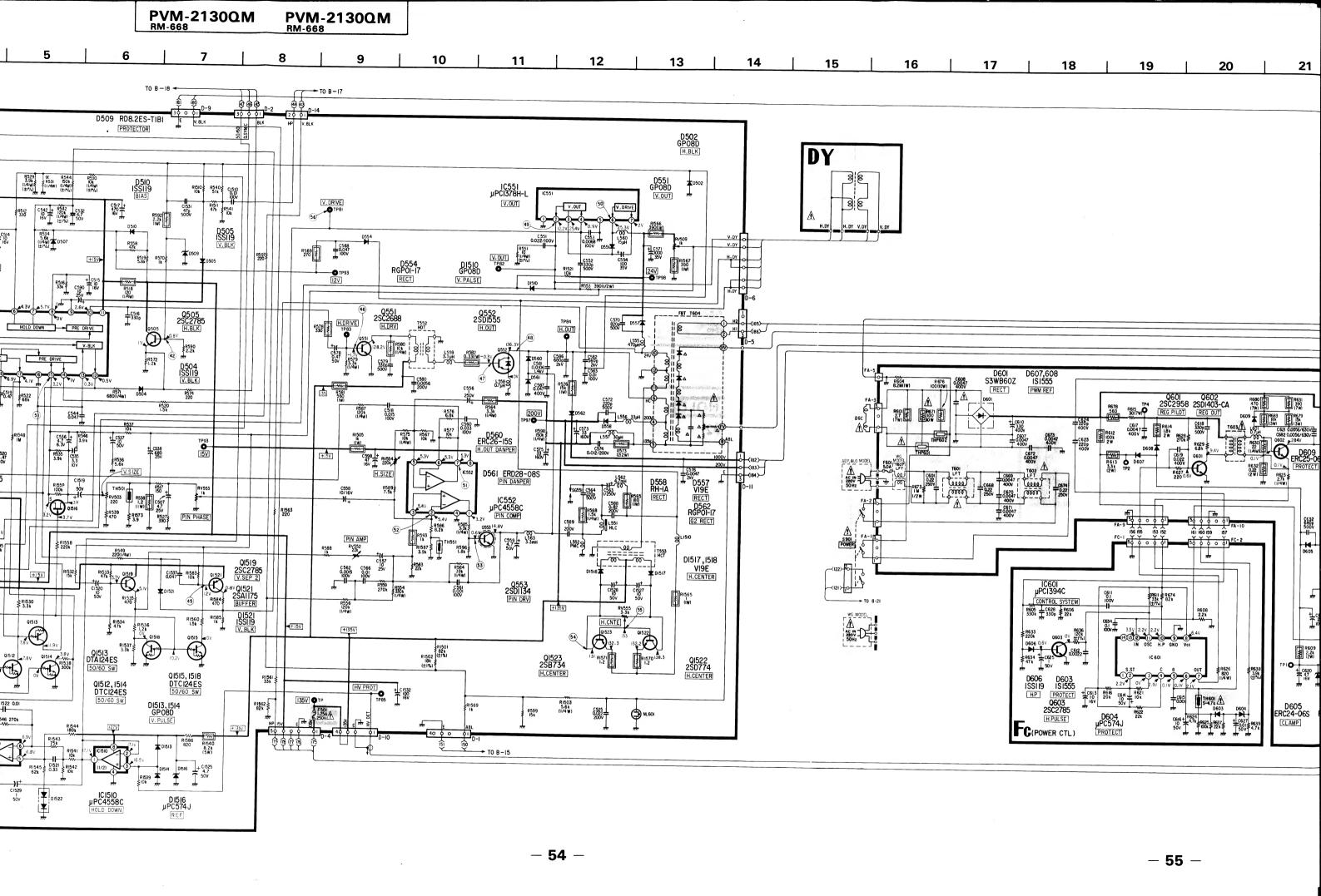
14

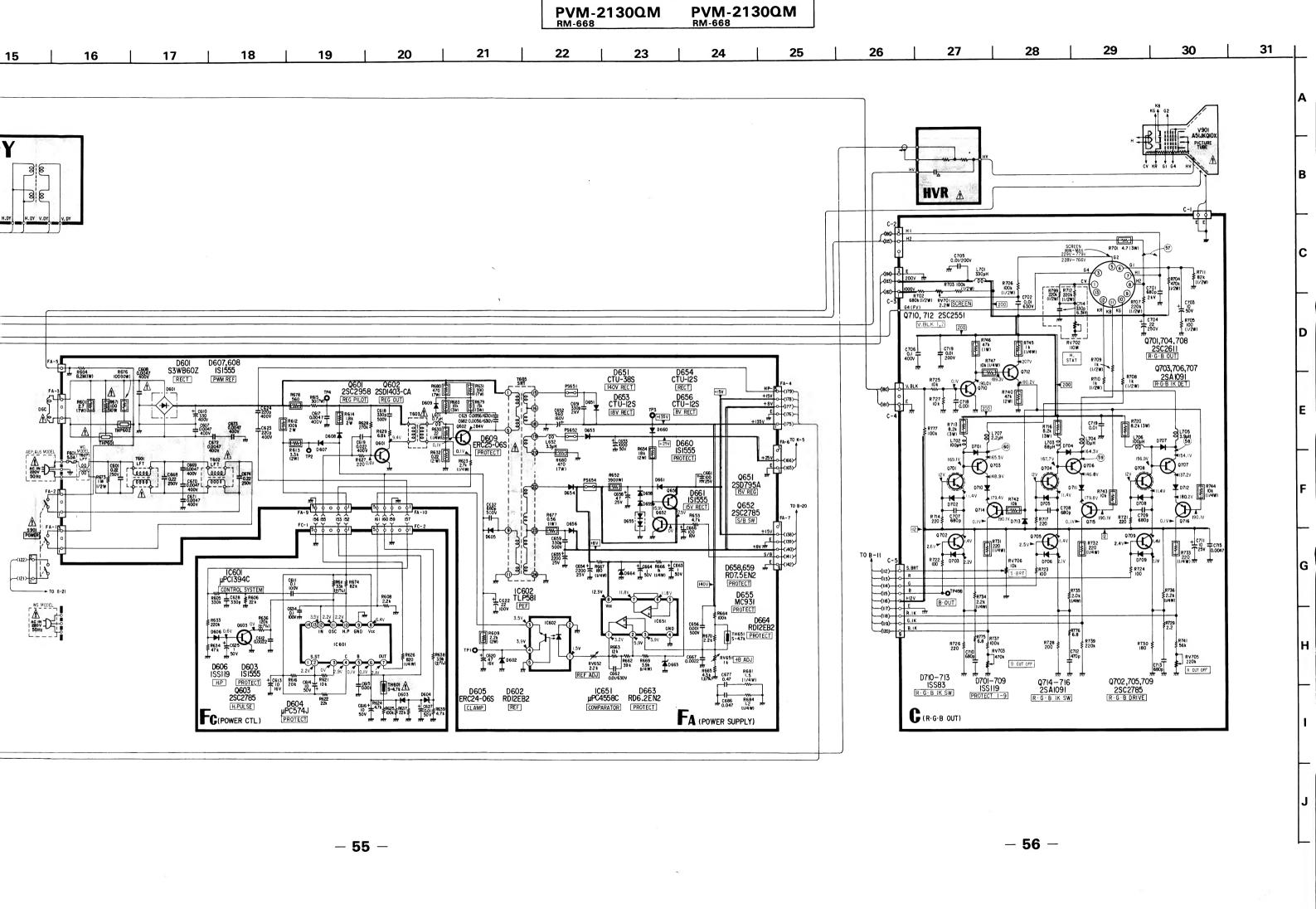
**- 49 -**

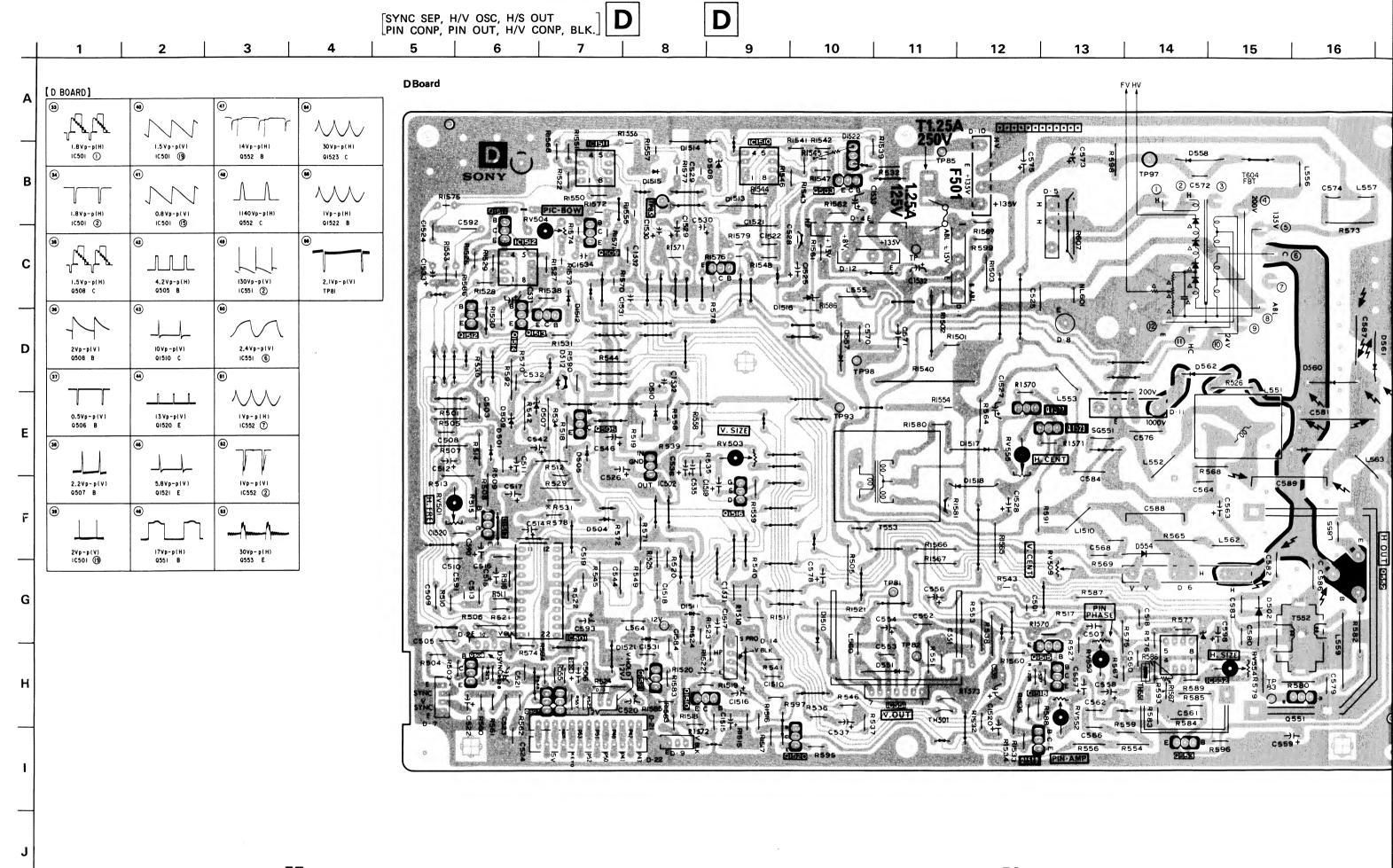


PVM-2130QM RM-668 2 3 5 1 4 6 8 9 10 11 12 - TO B - 17 D509 RD8.2ES-TIBI D(H.OSC OUT) D501 ISS119 V.SYNC SW Q1517 DTC124ES 50/06 SW ا0551 PCl378H-Lپر R540 C1510 51k 0.01 100V R1511 47k R541 10k D5I2 ISSII9 RI5IO V.OUT C 517 + 470 T C542 + R542 C532 10 120k 4.7 16V 11/4WI 50V CI53I 47p 500V R592 2.2k IIW) D505 ISSII9 V.BLK R514 R513 ₹10k ₹82k (I/4W) (I/4W) ± C571 10000 35V 24V • TP9 R558 47k 0509 01517 + C512 4.7 50V R519≹ +15V R570≹ D554 RGP0I-I7 DI5IO GPO8D V. PALSE RECT 0552 2SDI555 H.OUT 0505 2\$C2785 H.BLK TP84 H.OUT H-OSC D  $\mathbb{Q}_{\nu}$ Q508 2SAII75 BUFFER R572 R574 220 R520 C544 0.047 R577 C560 777 100V R598 I50k ≸ (I/4₩) D560 ERC26-I5S H.OUT DANPER R523 R524 13k 12k (1/4W) C575 + R535 3.9k C535 +15V C598 + RV554 47 RV554 16v 220k D561 ERD28-08S H.SIZE QI520 2SC2785 V. BLK TO HC -3 C558 10/16V R538 1,2 (1W) 25V R1573 3,9 R527 390 01516 ₹R539 470 PIN PHASE ₹RI573 3.9 QI519 2SC2785 V.SEP 2 R584 39k (I/4W) G RI533 Q553 2SDI 134 PIN DRV 8V QI52I 2SAII75 BUFFER +127 RI535 470 ₹ RI584 +135V RI585 1C502 PC78MI2H V. OSC REG R1560 R1527 2.2k R1534 ₹ 47k RI501 82k (±1%) 18k (±1%) R1537 3.3k ≱ QI5I3 DTAI24ES 50/60 SW QI523 2SB734 H.CENTER 0.71 R1526 33k QI5I5, I5I8 DTCI24ES 50/60 SW R1561 ≥ QI512, I514 DTCI24ES 50/60 SW ICI5I2 CX23025 50/60 SELECT RI503 5.6 k (I/4 W) RI\$62 ≸ DI513, I514 GP08D V. PULSE R599 15 k **♦** NL 601 DI516 ICI511 μPC4558C D 1522 ا10 ا5 ا PC45580پر DI5I6 پرPC574 J REF DI522 MC931 **- 53 -- 54 -**

**PVM-2130QM** 

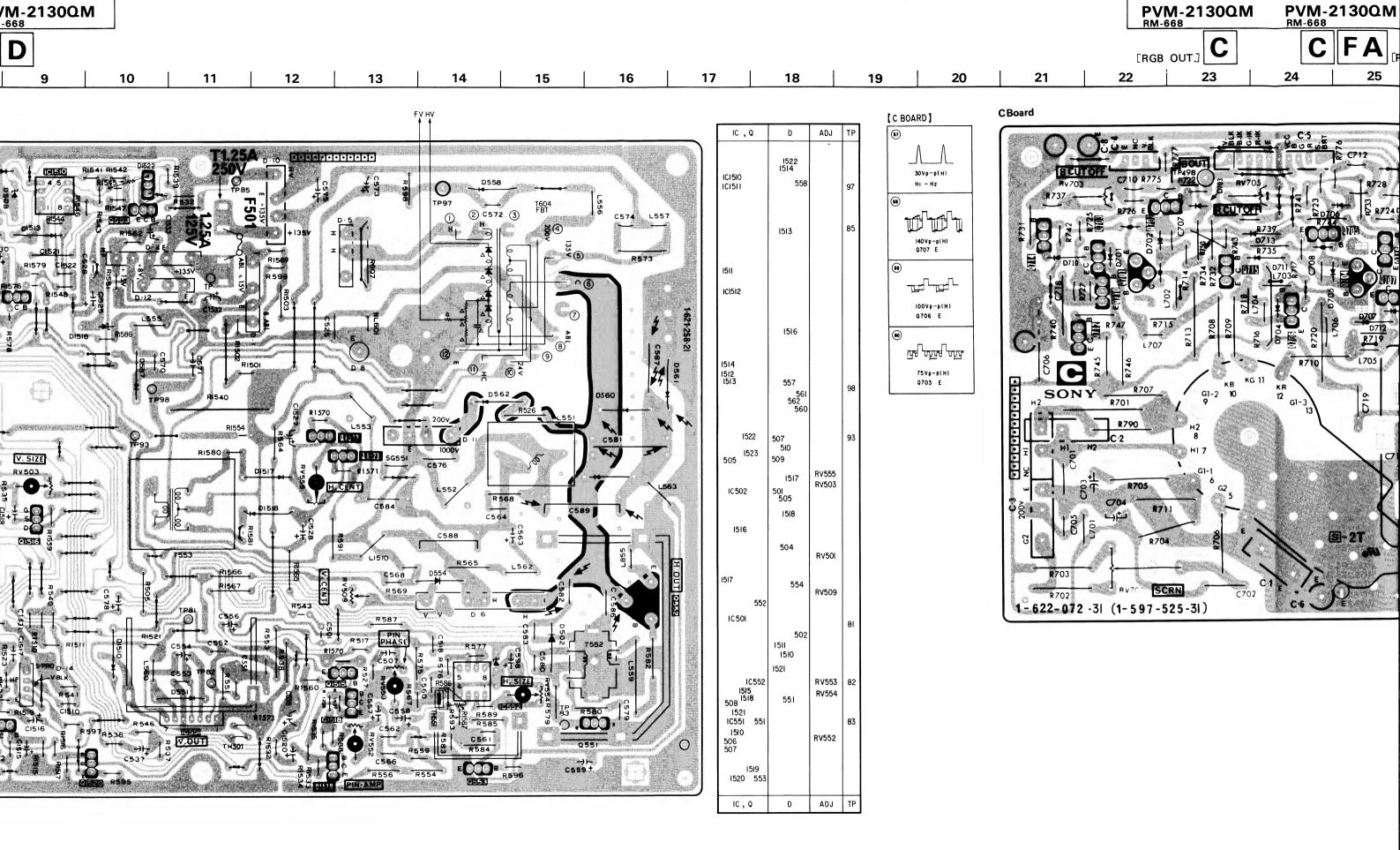


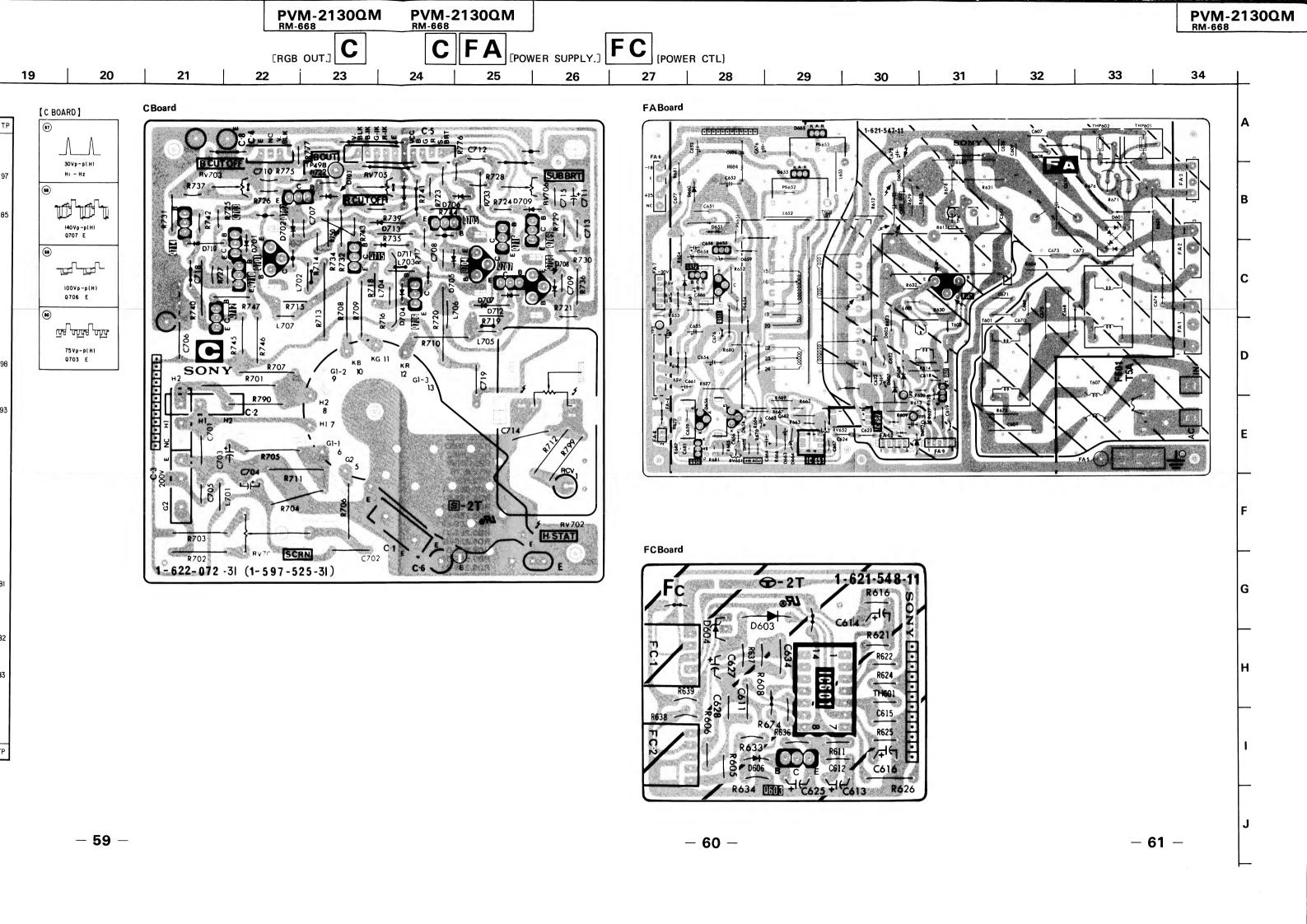




PVM-2130QM RM-668

PVM-2130QM RM-668





2SC2611 2SC2688

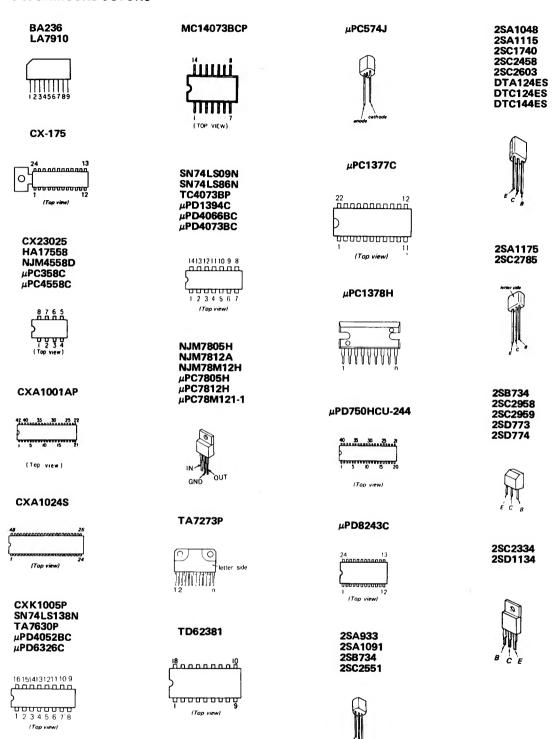
2SD795

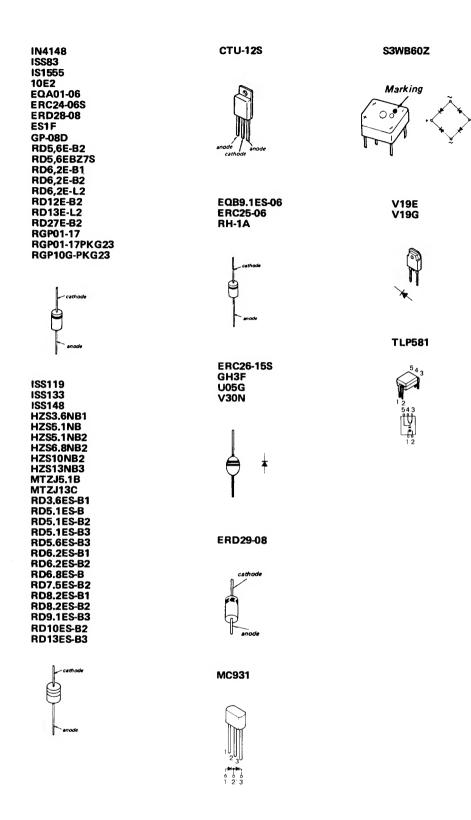
2SD1403

2SD1555

2SK523

#### 5-5. SEMICONDUCTORS





IN4148

ISS83 IS1555 10E2

EQA01-06 ERC24-06S ERD28-08 ES1F

GP-08D RD5,6E-B2

RD5,6EB27 RD6,2E-B1 RD6,2E-B2 RD6,2E-L2 RD12E-B2 RD13E-L2 RD27E-B2

RGP01-17 RGP01-17PKG23 RGP10G-PKG23

ISS119 ISS133 ISS148 HZS3.6NB1 HZS5.1NB HZS5.1NB2 HZS6.8NB2

HZS0.6NB2 HZS10NB2 HZS13NB3 MTZJ5.1B MTZJ13C RD3.6ES-B1

RD3.6ES-B1 RD5.1ES-B2 RD5.1ES-B3 RD5.6ES-B3 RD6.2ES-B1 RD6.2ES-B2 RD6.8ES-B

RD6.8ES-B RD7.5ES-B2 RD8.2ES-B1 RD8.2ES-B2 RD9.1ES-B3 RD10ES-B2 RD13ES-B3

RD5,6EBZ7S



2SD795



2SD1403



2SD1555



2SK523



CTU-12S



EQB9.1ES-06 ERC25-06 RH-1A



ERC26-15S GH3F U05G V30N



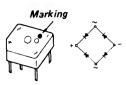
ERD29-08



MC931



#### S3WB60Z



V19E V19G



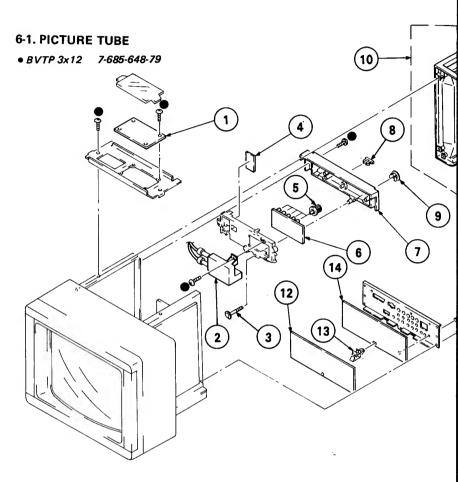
TLP581



## SECTION 6 EXPLODED VIEWS

#### NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked sind they are seldom required for routservice. Some delay should be anticipat when ordering these items.



No.	Part No.	<u>Description</u> <u>Re</u>	emark	No.	Part No.
1 2 3 4 5 6 7	*A-1389-865-A <b>A</b> ,1-237-614-11 4-319-520-11 *1-621-541-11 4-381-166-01 *A-1375-066-A 4-382-035-21	K BOARD, COMPLETE RESISTOR ASSY, HIGH-VOLTAGE SCREW, SPECIAL (+PW4X30) HD BOARD KNOB (A), CONTROL HC BOARD, COMPLETE PANEL, CONTROL	神 深載	8 9 10 11 12 13 14	4-371-176-01 4-371-181-01 X-4374-166-3 4-316-003-21 *A-1270-213-A *3-680-721-00 *A-1270-212-A *A-1270-223-A
					*A-12/U-223-A

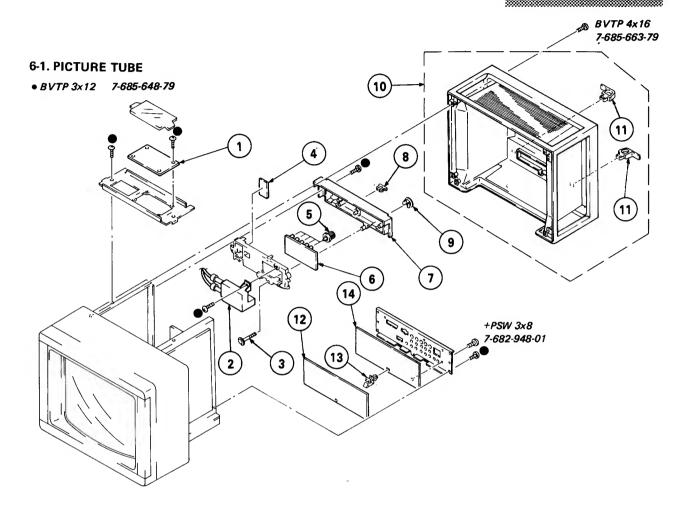
# SECTION 6 EXPLODED VIEWS

#### NOTE

- Items with no part number and no description are not stocked because they are selden required for routine service.
- are seldom required for routine service.

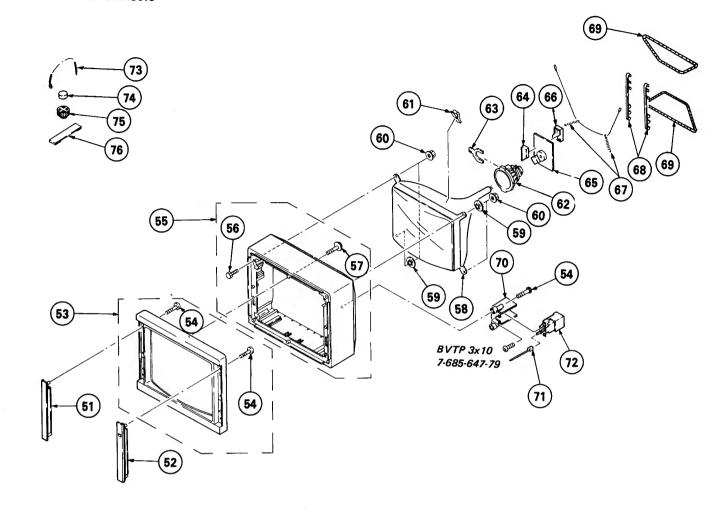
  The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety. Replace only with part number specified.



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1 2 3 4 5 6 7	A.1-237-614-11 4-319-520-11 *1-621-541-11 4-381-166-01 *A-1375-066-A	K BOARD, COMPLETE RESISTOR ASSY, HIGH-VOLTAGE SCREW, SPECIAL (+PW4X30) HD BOARD KNOB (A), CONTROL HC BOARD, COMPLETE PANEL, CONTROL			4-371-181-01 X-4374-166-3 4-316-003-21 *A-1270-213-A *3-680-721-00	HOLDER, CHASSIS	11

#### 6-2. CHASSIS



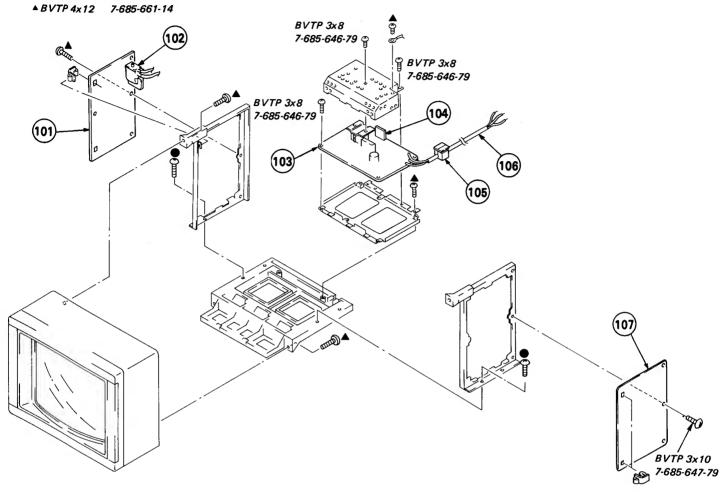
The components identified by shading and mark ⚠ are critical for safety.

Replace only with part number specified.

						***************************************
No.	Part No.	Description	Remark	No.	Part No.	<u>Description</u> <u>Remark</u>
51	1-464-803-11	KEY BOARD UNIT (A)		64	*4-379-167-01	COVER (MAIN), CV
52	1-464-804-11	KEY BOARD UNIT (B)		65	*A-1330-801-A	C BOARD, COMPLETE
53	X-4374-194-1	BEZEL ASSY	54	j 66	*4-379-160-01	
54	3-703-083-00	+ BV 3X25		j 67	4-369-318-00	SPRING, TENSION
55	X-4374-195-1	CABINET ASSY	56,57	j 68	*4-369-319-00	BAND, COIL
56	3-703-025-12	BOLT M5, HEXAGON-HEAD		69	A.1-426-315-11	COIL, DEMAGNETIZATION
57	4-319-520-11	SCREW, SPECIAL (+PW4X30)		70	*4-383-128-01	
58	A.8-736-955-05	PICTURE TUBE (A51JKQ10X)		71	*4-371-182-01	SHAFT
59		WASHER, CRT POSITIONING		72	A.1-554-965-12	SWITCH, PUSH (AC POWER)(1 KEY)
60		FLANGE NUT, (B) 5MM		73	4-308-870-00	CLIP, LEAD WIRE
61	3-703-003-00	SPACER, DY		74	1-452-032-00	MAGNÉT, DISK; 10MM Ø
62		DEFLECTION YOKE (SY-153E)	1, 2,	75	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ø
63	1-452-277-00			76	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE

#### 6-3. BACK COVER

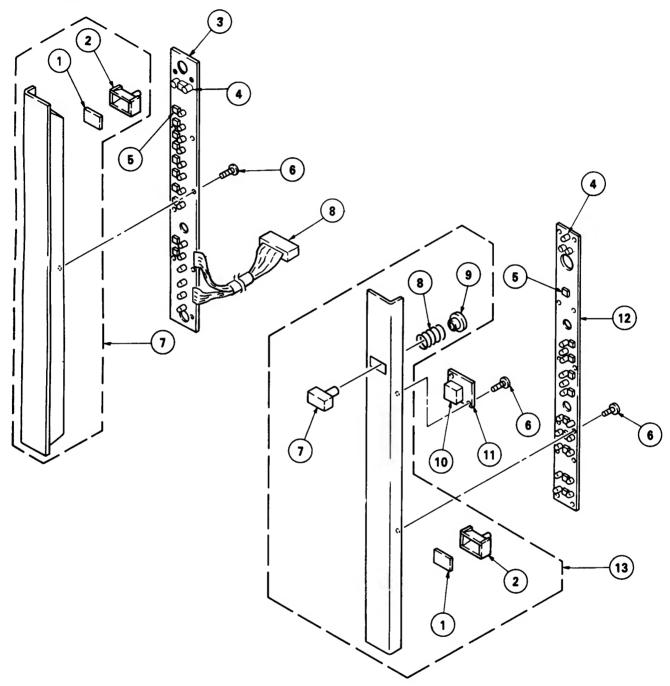
• BVTP 3x12 7-685-648-79



The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
102 103	<b>1-439-372-32</b> ★A-1245-395-A	D BOARD, COMPLETE TRANSFORMER ASSY, FLYBACK FA BOARD, COMPLETE (AEP, AUS ONLY FA BOARD, COMPLETE (WG ONLY) FC BOARD	) 104	106 	<b>A.</b> 1-534-820-13 <b>A.</b> 1-559-409-11	BUSHING, AC CORD POWER CORD (AEP, AUS ON POWER CORD (WG ONLY) B BOARD, COMPLETE	LY)

#### 6-4. KEY BOARD UNIT



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1 2 3 4 5 6 7 8	9-990-892-01 9-990-891-01 *9-992-308-01 9-990-895-01 1-553-766-00 9-990-894-01 9-992-310-01 9-992-309-01	ILLUMINATOR A REFLECTOR A HA BOARD SPACER MT SWITCH (KEY BOARD SWITCH) TAPPING SCREW FRAME ASSY HARNESS	1,2	1 1 2 4 4 5 6 6 7 8 9 1 10 11 12 13	9-990-892-01 9-990-891-01 9-990-895-01 1-553-766-00 9-990-894-01 9-990-899-01 9-990-900-01 8-741-138-70 *9-990-898-01 *9-992-401-01 9-992-402-01	ILLUMÎNATOR A REFLECTOR A SPACER MT SWITCH (KEY BOARD SWITCH) TAPPING SCREW KEY TOP COIL SPRING STOPPER DETECTOR (BX1387) N BOARD HB BOARD FRAME ASSY	1,2,7,8,9

#### **SECTION 7 ELECTRICAL PARTS LIST**

NOTE:

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS . • MF : ער, PF : עע

RESISTORS

• All resistors are in ohms • F : nonflammable

COILS

• MMH : mH, UH : بالا

When indicating parts by reference number, please include the board name.

				the boar	rd name.						
Ref.No. Part No.	Description			Remark	Ref.No.	Part	No.	Description			Remark
*A-1135-448-A <u>Cor</u>	B BOARD, COM ************************************	IPLETE *****			C138 C139 C140 C141 C161	1-123 1-123 1-123	3-307-00 3-356-00 3-356-00 3-330-00 3-333-00	ELECT ELECT ELECT ELECT ELECT	100MF 10MF 10MF 22MF 100MF	20% 20% 20% 20% 20%	10V 16V 16V 16V 25V
B1 *1-566-054-11 B2 *1-566-057-11 B4 *1-566-055-11 B5 *1-566-059-11 B6 *1-566-056-11	PIN, CONNECT	OR 5P OR 3P OR 7P			C162   C167   C168   C169   C170	1-101 1-123 1-123	3-321-00 1-004-00 3-356-00 3-356-00 1-004-00	ELECT CERAMIC ELECT ELECT CERAMIC	220MF 0.01MF 10MF 10MF 0.01MF	20% 20% 20%	16V 50V 16V 25V 50V
87		OR 7P OR 9P OR 13P			C171   C173   C174   C175   C177	1-123 1-101 1-101 1-101	3-356-00 1-004-00 1-004-00 1-006-00 0-354-00	ELECT CERAMIC CERAMIC CERAMIC ELECT	10MF 0.01MF 0.01MF 0.047MF 330MF	20%	16V 50V 50V 50V 10V
B13 *1-566-054-11 B14 *1-566-057-11 B15 *1-508-766-00 B16 *1-566-056-11 B17 *1-566-054-11	PIN, CONNECT PIN, CONNECT 4P PLUG (M) PIN, CONNECT PIN, CONNECT	OR 5P OR 4P			C178   C179   C180   C181   C182	1-101 1-101 1-123 1-123	1-004-00 1-006-00 3-307-00 3-332-00 1-006-00	CERAMIC CERAMIC ELECT ELECT CERAMIC	0.01MF 0.047MF 100MF 47MF 0.047MF	20% 20%	50V 50V 10V 16V 50V
818	PIN, CONNECT PIN, CONNECT PIN, CONNECT PIN, CONNECT	OR 5P OR 6P			C183   C185   C186   C187	1-123 1-123 1-123	9-352-00 8-307-00 8-356-00 8-330-00	ELECT ELECT ELECT ELECT	100MF 100MF 10MF 22MF	20% 20% 20%	10V 10V 16V 16V
LAI	PACITOR				C301	1-123	3-333-00	ELECT	100MF	20%	16V
C101 1-123-356-00 C103 1-102-973-00 C104 1-123-306-00 C105 1-136-161-00 C106 1-102-963-00	CERAMIC ELECT FILM	10MF 100PF 47MF 0.047MF 33PF	20% 5% 20% 5% 5%	16V 50V 10V 50V 50V	C302 C303 C304 C305 C306	1-123 1-123 1-110	1-888-00 3-369-00 3-356-00 0-201-00 1-006-00	CERAMIC ELECT ELECT MYLAR CERAMIC	68PF 4.7MF 10MF 0.0033MF 0.047MF	5% 20% 20% 5%	50 V 25 V 16 V 50 V 50 V
C107 1-102-963-00 C108 1-102-978-00 C110 1-123-333-00 C112 1-123-335-00 C113 1-123-318-00	CERAMIC CERAMIC ELECT ELECT ELECT	33PF 220PF 100MF 330MF 33MF	5% 5% 20% 20% 20%	50 V 50 V 25 V 25 V 16 V	C307   C308   C309   C310   C311	1-123 1-102 1-123	1-006-00 3-381-00 2-946-00 3-356-00 5-157-00	CERAMIC ELECT CERAMIC ELECT FILM	0.047MF 2.2MF 9PF 10MF 0.022MF	20% 0.5PF 20% 5%	50 V 50 V 50 V 16 V 50 V
C114 1-123-333-00 C115 1-123-333-00 C116 1-101-006-00 C118 1-101-004-00 C119 1-123-330-00	ELECT ELECT CERAMIC CERAMIC ELECT	100MF 100MF 0.047MF 0.01MF 22MF	20% 20% 20%	25V 16V 50V 50V 16V	C312 C313 C314 C315 C316	1-102 1-101 1-101	5-157-00 2-074-00 1-006-00 1-006-00 5-169-00	FILM CERAMIC CERAMIC CERAMIC FILM	0.022MF 0.001MF 0.047MF 0.047MF 0.22MF	5% 10% 5%	50 V 50 V 50 V 50 V 50 V
C120 1-123-330-00 C121 1-123-356-00 C123 1-101-006-00 C125 1-123-380-00 C126 1-123-380-00	ELECT	22MF 10MF 0.047MF 1MF 1MF	20% 20% 20% 20%	25V 16V 50V 50V 50V	C317   C322   C323   C324   C325	1-101 1-124 1-124	2-074-00 1-006-00 1-464-11 1-464-11 3-333-00	CERAMIC CERAMIC ELECT ELECT ELECT	0.001MF 0.047MF 0.22MF 0.22MF 100MF	10% 20% 20% 20%	50 V 50 V 50 V 50 V 16 V
C127 1-123-380-00 C128 1-123-380-00 C131 1-130-475-00 C133 1-123-380-00 C134 1-123-380-00	ELECT MYLAR ELECT	1MF 1MF 0.0022MF 1MF 1MF	20% 20% 5% 20% 20%	50V 50V 50V 50V 50V	C326   C327   C330   C331   C332	1-102 1-101 1-123	4-464-11 2-111-00 1-006-00 3-380-00 5-161-00	ELECT CERAMIC CERAMIC ELECT FILM	0.22MF 270PF 0.047MF 1MF 0.047MF	20% 10% 20% 5%	50 V 50 V 50 V 50 V 50 V
C135 1-123-381-00 C136 1-101-006-00 C137 1-123-307-00	CERAMIC	2.2MF 0.047MF 100MF	20% 20%	50V 50V 10V	C333   C334   C335	1-123	2-959-00 3-380-00 3-307-00	CERAMIC ELECT ELECT	22PF 1MF 100MF	5% 20% 20%	50V 50V 10V



Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
C336 C337 C341 C346 C347	1-123-318-00 1-102-112-00 1-123-380-00 1-123-380-00 1-102-111-00	ELECT CERAMIC ELECT ELECT CERAMIC	33MF 330PF 1MF 1MF 270PF	20% 10% 20% 20% 10%	16V 50V 50V 50V 50V	C1302 C1304 C1305 C1306 C1316	1-124-656-00 1-123-356-00 1-136-161-00 1-123-380-00 1-123-356-00	ELECT ELECT FILM ELECT ELECT	2.2MF 10MF 0.047MF 1MF 10MF	20% 20% 5% 20% 20%	50V 16V 50V 50V 25V
C350 C351 C352 C353 C354	1-123-356-00 1-102-074-00 1-101-361-00 1-102-959-00 1-123-380-00	ELECT CERAMIC CERAMIC CERAMIC ELECT	10MF 0.001MF 150PF 22PF 1MF	20% 10% 5% 5% 20%	16V 50V 50V 50V 50V	C1317 C1318 C1319 C1320 C1321	1-123-380-00 1-123-380-00 1-123-380-00 1-123-382-00 1-123-356-00	ELECT ELECT ELECT ELECT ELECT	1MF 1MF 1MF 3.3MF 10MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 25V
C355 C381 C382 C402 C404	1-101-005-00 1-102-074-00 1-123-332-00 1-136-167-00 1-136-165-00	CERAMIC CERAMIC ELECT FILM FILM	0.022MF 0.001MF 47MF 0.15MF 0.1MF	10% 20% 5% 5%	50V 50V 16V 50V	C1324	1-101-004-00 1-123-356-00 1-123-332-00 1-101-006-00 1-101-006-00	CERAMIC ELECT ELECT CERAMIC CERAMIC	0.01MF 10MF 47MF 0.047MF 0.047MF	20% 20%	50V 25V 16V 50V 50V
C405 C406 C408 C410 C411	1-102-806-00 1-101-890-00 1-123-356-00 1-123-356-00 1-136-161-00	CERAMIC CERAMIC ELECT ELECT FILM	27PF 75PF 10MF 10MF 0.047MF	5% 5% 20% 20% 5%	50V 50V 16V 50V 50V	C1334 C1336	1-123-318-00 1-136-153-00 1-101-004-00 1-110-203-00 1-136-161-00	ELECT FILM CERAMIC MYLAR FILM	33MF 0.01MF 0.01MF 0.0047MF 0.047MF	20% 5% 5% 5%	16V 50V 50V 50V 50V
C412 C413 C414 C415 C416	1-102-119-00 1-123-380-00 1-136-173-00 1-101-005-00 1-123-356-00	CERAMIC ELECT FILM CERAMIC ELECT	0.0015MF 1MF 0.47MF 0.022MF 10MF	10% 20% 5% 20%	50 V 50 V 50 V 50 V 16 V	C1343	1-136-153-00 1-110-203-00 1-136-161-00 1-136-153-00 1-110-203-00	FILM MYLAR FILM FILM MYLAR	0.01MF 0.0047MF 0.047MF 0.01MF 0.0047MF	5% 5% 5% 5% 5%	50 V 50 V 50 V 50 V 50 V
C417 C418 C419 C420 C421	1-123-356-00 1-136-161-00 1-123-380-00 1-101-890-00 1-102-806-00	ELECT FILM ELECT CERAMIC CERAMIC	10MF 0.047MF 1MF 75PF 27PF	20% 5% 20% 5% 5%	16V 50V 50V 50V	C1352 C1353 C1354	1-123-356-00 1-123-332-00 1-102-973-00 1-136-157-00 1-123-380-00	ELECT ELECT CERAMIC FILM ELECT	10MF 47MF 100PF 0.022MF 1MF	20% 20% 5% 5% 20%	25V 16V 50V 50V
C423 C424 C425 C426 C427	1-136-165-00 1-123-356-00 1-102-888-00 1-101-004-00 1-101-006-00	FILM ELECT CERAMIC CERAMIC CERAMIC	0.1MF 10MF 150PF 0.01MF 0.047MF	5% 20% 5%	50V 16V 50V 50V 50V	C1359	1-136-165-00 1-123-380-00 1-123-369-00 1-102-820-00 1-102-820-00	FILM ELECT ELECT CERAMIC CERAMIC	0.1MF 1MF 4.7MF 330PF 330PF	5% 20% 20% 5% 5%	50 V 50 V 50 V 50 V 50 V
C428 C429 C430 C434 C452	1-102-121-00 1-136-161-00 1-102-971-00 1-102-112-00 1-136-169-00	CERAMIC FILM CERAMIC CERAMIC FILM	0.0022MF 0.047MF 82PF 330PF 0.22MF	10% 5% 5% 10% 5%	50V 50V 50V 50V	C1390	1-102-129-00 1-130-475-00 1-101-004-00 1-123-356-00 1-123-356-00	CERAMIC MYLAR CERAMIC ELECT ELECT	0.01MF 0.0022MF 0.01MF 10MF 10MF	10% 5% 20% 20%	50 V 50 V 50 V 16 V 16 V
C453 C454 C466	1-123-333-00 1-102-963-00 1-102-115-00	ELECT CERAMIC CERAMIC	100MF 33PF 560PF	20% 5% 10%	16V 50V 50V	C1393	1-101-004-00	CERAMIC	0.01MF		50 <b>v</b>
C470 C472	1-123-333-00 1-123-356-00	ELECT ELECT	100MF 10MF	20% 20%	16V 16V	CT358	1-141-181-11	MMER CAP, TRIMMER			
C473 C474 C475 C476 C477	1-101-361-00 1-102-662-00 1-102-662-00 1-102-662-00	CERAMIC CERAMIC CERAMIC CERAMIC	150PF 7PF 7PF 7PF	5% 0.5PF 0.5PF 0.5PF	50 V 50 V 50 V 50 V	D101	1-141-181-11 <u>DIO</u> 8-719-109-97	<u>DE</u> DIODE RD6.8E	S-B2		
C481 C482 C484 C1301	1-102-662-00 1-108-614-91 1-102-820-00 1-136-165-00 1-101-004-00	CERAMIC MYLAR CERAMIC FILM CERAMIC	7PF 0.001MF 330PF 0.1MF 0.01MF	0.5PF 10% 5%	50V 100V 50V 50V	D102 D103 D104 D108	8-719-109-97 8-719-911-19 8-719-109-68 8-719-911-19	DIODE RD6.8E DIODE 1SS119 DIODE RD3.6E DIODE 1SS119			



Ref.No. Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
D110 8-719-911- D111 8-719-110- D112 8-719-911- D113 8-719-911- D114 8-719-911-	-08 DIODE RD8.2ES-B2 -19 DIODE 1SS119 -19 DIODE 1SS119		IC107   IC110   IC121	8-759-207-07 8-759-207-07 8-759-140-66 8-759-171-05 *4-363-146-00	IC TD62381P IC TD62381P IC UPD4066BC IC UPC7805H HEAT SINK, V.OUT; IC121	
D116 8-719-109-	19 DIODE 1SS119 19 DIODE 1SS119		   IC301   IC302	8-759-700-06 *4-323-833-00 8-752-030-86 8-752-030-31 8-759-240-73	HEAT SINK, PIN OUT; IC122 IC CXA1001AP IC CXA1024S	
0121 8-719-911- 0123 8-719-911- 0124 8-719-911- 0125 8-719-911- 0126 8-719-109-	19 DIODE 1SS119 19 DIODE 1SS119		IC411	8-751-750-00 8-759-135-80 8-759-140-66	IC UPD4066BC	
			i	<u>COI</u>	-	
D127 8-719-109- D305 8-719-911- D306 8-719-911- D307 8-719-911- D308 8-719-911-	19 DIODE 1SS119 19 DIODE 1SS119		L101   L104   L105   L161   L333		MICRO INDUCTOR 180UH MICRO INDUCTOR 180UH MICRO INDUCTOR 180UH COIL, SPOOK CHOKE 3.3UH MICRO INDUCTOR 39UH	
D309 8-719-911- D334 8-719-110- D335 8-719-911- D339 8-719-911- D340 8-719-911-	15 DIODE RD10ES-B		L337 L405 L406 L420 L421	1-408-160-00 1-404-496-00 1-408-411-00 1-408-411-00 1-404-496-00	MICRO INDUCTOR 15MMH COIL MICRO INDUCTOR 15UH MICRO INDUCTOR 15UH COIL	
D341 8-719-911- D342 8-719-110- D343 8-719-110- D344 8-719-110- D345 8-719-911-	15 DIODE RD10ES-B 15 DIODE RD10ES-B 15 DIODE RD10ES-B		L430 L431 L432 L435 L435 L451	1-408-245-00 1-408-414-00 1-408-415-00 1-408-408-00 1-404-495-00	MICRO INDUCTOR 22MMH MICRO INDUCTOR 27UH MICRO INDUCTOR 33UH MICRO INDUCTOR 8.2UH COIL	
D351 8-719-911- D354 8-719-911- D361 8-719-911- D362 8-719-911-	19 DIODE 1SS119 19 DIODE 1SS119 19 DIODE 1SS119		L452   L455 		COIL MICRO INDUCTOR 5.6MMH LINK	
D392 8-719-911-	19 DIODE 1SS119		   PS1	1-532-605-00	LINU IC	
D401 8-719-911- D442 8-719-911-			PS2	1-532-637-00	LINK, IC	
D443 8-719-911-	19 DIODE 1SS119		į	TRA	NSISTOR	
D444 8-719-911- D445 8-719-911-			0101	8-729-117-54	TRANSISTOR 2SA1175	
D454 8-719-911-	19 DIODE 1SS119 19 DIODE 1SS119 19 DIODE 1SS119		0102 0103 0104 0105	8-729-117-54 8-729-178-54 8-729-178-54 8-729-178-54	TRANSISTOR 2SA1175 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785	
	DELAY LINE		0107	8-729-900-36		
DL401 1-415-380-	31 DELAY LINE, 1H (PAL) 11 DELAY LINE, Y		Q108   Q109   Q110   Q111	8-729-178-54 8-729-117-54 8-729-117-54 8-729-103-43	TRANSISTOR 2SC2785 TRANSISTOR 2SA1175 TRANSISTOR 2SA1175 TRANSISTOR 2SB734	
	<u>IC</u>		   Q112	8-729-178-54	TRANSISTOR 2SC2785	
IC101 8-759-113- IC102 8-752-321- IC103 8-759-102- IC104 8-759-182-	18 IC CXK1005P 28 IC UPD6326C		Q113   Q114   Q115   Q116	8-729-178-54 8-729-178-54 8-729-900-36 8-729-117-54	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785	



Ref.No. Part No.	Description	Remark	Ref.No.	Part No.	Description				Remark
Q117 8-729-178-54 Q118 8-729-117-54	TRANSISTOR 2SA1175			8-729-178-54 8-729-117-54					
Q119 8-729-117-54 Q121 8-729-133-42 *4-363-146-00	TRANSISTOR 2SC2334-L			RES	ISTOR				
Q122 8-729-117-54 Q123 8-729-178-54 Q301 8-729-117-54	TRANSISTOR 2SA1175 TRANSISTOR 2SC2785		R101 R102 R103 R104	1-249-395-11 1-249-395-11 1-249-441-11 1-249-441-11		15 15 100K 100K		1/6W 1/6W 1/6W 1/6W	
0309 8-729-178-54 0310 8-729-117-54	TRANSISTOR 2SC2785		R105	1-247-805-00		82	5% 5**	1/6W	
Q311 8-729-177-43 Q315 8-729-178-54 Q316 8-729-178-54 Q321 8-729-178-54 Q322 8-729-178-54	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		R106   R107   R108   R109   R110	1-249-413-11 1-249-411-11 1-249-441-11 1-249-433-11 1-249-465-11	CARBON CARBON CARBON CARBON CARBON	470 330 100K 22K 47K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/4W	
Q324 8-729-178-54 Q331 8-729-178-54 Q341 8-729-178-54	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		R111 R114 R116 R117	1-249-437-11 1-249-437-11 1-249-414-11 1-249-429-11	CARBON CARBON CARBON CARBON	47K 47K 560 10K	5% 5% 5%	1/6W 1/6W 1/6W 1/6W	
Q342 8-729-178-54 Q343 8-729-178-54 Q353 8-729-178-54	TRANSISTOR 2SC2785		R118     R119   R121	1-249-429-11 1-249-429-11 1-215-867-00		10K 10K 470	5% 5% 5%	1/6W 1/6W 1W	F
Q354 8-729-900-36 Q355 8-729-178-54 Q357 8-729-117-54	TRANSISTOR DTC124ES TRANSISTOR 2SC2785 TRANSISTOR 2SA1175		R122   R123   R124	1-249-417-11 1-216-357-00 1-249-433-11	CARBON	1K 4.7 22K	5% 5% 5%	1/6W 1W 1/6W	F
Q358 8-729-900-36 Q361 8-729-117-54 Q362 8-729-117-54	TRANSISTOR 2SA1175		   R125   R126   R127	1-249-435-11 1-249-431-11 1-249-417-11	CARBON CARBON CARBON	33K 15K 1K	5% 5% 5%	1/6W 1/6W 1/6W	
Q363 8-729-117-54 Q371 8-729-178-54 Q372 8-729-178-54	TRANSISTOR 2SA1175 TRANSISTOR 2SC2785		R128 R129 R130	1-249-434-11 1-247-717-11 1-247-706-11	CARBON	27K 2.2K 330	5% 5% 5%	1/6W 1/4W 1/4W	
Q373 8-729-178-54 Q374 8-729-178-54 Q393 8-729-117-54 Q400 8-729-178-54	TRANSISTOR 2SC2785 TRANSISTOR 2SA1175		R131   R132   R133   R134	1-249-409-11 1-249-409-11 1-249-421-11 1-249-421-11		220 220 2.2K 2.2K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W	
Q401 8-729-178-54 Q402 8-729-178-54	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		   R135   R136	1-249-437-11 1-249-417-11	CARBON CARBON	47K 1K	5% 5%	1/6W 1/6W	
Q403 8-729-117-54 Q405 8-729-178-54 Q406 8-729-117-54 Q407 8-729-178-54	TRANSISTOR 2SC2785 TRANSISTOR 2SA1175		R137   R138   R139	1-249-421-11 1-249-421-11 1-249-421-11	CARBON CARBON	2.2K 2.2K 2.2K	5% 5%	1/6W 1/6W 1/6W	
Q450 8-729-117-54 Q451 8-729-178-54 Q452 8-729-178-54	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		R140   R141   R142   R143   R144	1-249-421-11 1-247-717-11 1-249-421-11 1-249-429-11 1-249-429-11	CARBON	2.2K 2.2K 2.2K 10K 10K	5%	1/6W 1/4W 1/6W 1/6W 1/6W	
Q453 8-729-117-54 Q454 8-729-117-54	TRANSISTOR 2SA1175		i R145	1-249-437-11	CARBON	47K	5%	1/6W	
Q455 8-729-178-54 Q456 8-729-117-54 Q457 8-729-178-54 Q458 8-729-117-54 Q459 8-729-117-54	TRANSISTOR 2SA1175 TRANSISTOR 2SC2785 TRANSISTOR 2SA1175		R146   R147   R148   R149	1-249-425-11 1-249-441-11 1-249-434-11 1-249-427-11	CARBON CARBON CARBON CARBON	4.7K 100K 27K 6.8K	5%	1/6W 1/6W 1/6W 1/6W	
Q460 8-729-178-50 Q461 8-729-178-50 Q1301 8-729-178-50	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		R150 R151 R152 R153	1-249-427-11 1-249-423-11 1-249-421-11 1-249-421-11	CARBON	6.8K 3.3K 2.2K 2.2K	5% 5%	1/6W 1/6W 1/6W 1/6W	



Ref.No.	Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
R154	1-249-421-11	CARBON	2.2K	5%	1/6W		R313	1-249-421-11	CARBON	2.2K	5%	1/6W	
R155 R156	1-247-717-11	CARBON	2.2K	5%	1/4W		R314	1-249-409-11	CARBON	220	5%	1/6W	
R150	1-249-423-11 1-249-433-11	CARBON CARBON	3.3K 22K	5% 5%	1/6W 1/6W		R315   R316	1-249-433-11	CARBON	22K	5%	1/6W	
R158	1-249-417-11	CARBON	1K	5%	1/6W		R317	1-249-435-11 1-249-421-11	CARBON CARBON	33K 2.2K	5% 5%	1/6W 1/6W	
				- /-	-,		1	1-245-421-11	CARDON	2.21	3/6	1/UW	
R159	1-249-418-11	CARBON	1.2K	5%	1/6W		R318	1-249-409-11	CARBON	220	5%	1/6W	
R160 R161	1-249-397-11	CARBON	22	5%	1/6W		R319	1-249-433-11	CARBON	22K	5%	1/6W	
R162	1-249-397-11 1-249-397-11	CARBON CARBON	22 22	5% 5%	1/6W 1/6W		R320   R321	1-249-435-11 1-249-435-11	CARBON CARBON	33K 33K	5% 5%	1/6W	
R163	1-249-397-11	CARBON	22	5%	1/6W		R322	1-249-429-11	CARBON	10K	5%	1/6W 1/6W	
R164	1 240 207 11	CARRON	20	F~	1 (6)								
R165	1-249-397-11 1-247-692-11	CARBON CARBON	22 22	5% 5%	1/6W 1/4W		R323   R324	1-249-441-11 1-249-441-11	CARBON	100K	5%	1/6W	
R166	1-249-397-11	CARBON	22	5%	1/6W		R324	1-249-441-11	CARBON CARBON	100K 100K	5% 5%	1/6W 1/6W	
R167	1-249-397-11	CARBON	22	5%	1/6W		R327	1-249-423-11	CARBON	3.3K	5%	1/6W	
R168	1-249-397-11	CARBON	22	5%	1/6W		R328	1-249-423-11	CARBON	3.3K	5%	1/6W	
R169	1-249-397-11	CARBON	22	5%	1/6W		   R329	1-249-423-11	CARRON	3 34	F~	1.4611	
R170	1-249-397-11	CARBON	22	5%	1/6W		R330	1-249-417-11	CARBON CARBON	3.3K 1K	5% 5%	1/6W 1/6W	
R171	1-249-397-11	CARBON	22	5%	1/6W		R331	1-215-493-00	CARBON	1M	5%	1/6W	
R172	1-249-397-11	CARBON	22	5%	1/6W		R332	1-215-479-00	CARBON	270K	5%	1/6W	
R173	1-249-397-11	CARBON	22	5%	1/6W		R333	1-249-414-11	CARBON	560	5%	1/6W	
R174	1-249-429-11	CARBON	10K	5%	1/6W		I I R334	1-247-883-00	CARBON	150K	5%	1/6W	
R175	1-249-429-11	CARBON	10K	5%	1/6W		R335	1-249-413-11	CARBON	470	5%	1/6W	
R176	1-247-725-11	CARBON	10K	5%	1/4W		R336	1-249-409-11	CARBON	220	5%	1/6W	
R177	1-249-433-11	CARBON	22K	5%	1/6W		R337	1-249-427-11	CARBON	6.8K	5%	1/6W	
R178	1-249-433-11	CARBON	22K	5%	1/6W		J R338	1-249-421-11	CARBON	2.2K	5%	1/6W	
R179	1-249-425-11	CARBON	4.7K	5%	1/6W		R339	1-249-417-11	CARBON	1K	5%	1/6W	
R181	1-249-435-11	CARBON	33K	5%	1/6W		R340	1-249-421-11	CARBON	2.2K	5%	1/6W	
R182 R183	1-247-849-00	CARBON	5.6K	5%	1/6W		R341	1-249-422-11	CARBON	2.7K	5%	1/6W	
R184	1-249-433-11 1-249-435-11	CARBON CARBON	22K 33K	5% 5%	1/6W 1/6W		R342   R343	1-249-428-11	CARBON	8.2K	5%	1/6W	
	1-245-405-11	CARDON	JJK	J /6	1/01		1 1242	1-249-433-11	CARBON	22K	5%	1/6W	
R185	1-247-713-11	CARBON	1K	5%	1/4W		R345	1-249-439-11	CARBON	68K	5%	1/6W	
R186 R187	1-249-417-11	CARBON	1K	5%	1/6W		R346	1-247-849-00	CARBON	5.6K	5%	1/6W	
R188	1-249-417-11 1-249-417-11	CARBON CARBON	1K 1K	5% 5%	1/6W 1/6W		R350	1-249-413-11	CARBON	470	5%	1/6W	
R189	1-249-417-11	CARBON	1K	5%	1/6W		R351   R352	1-249-405-11 1-249-433-11	CARBON CARBON	100 22K	5% 5%	1/6W	
					1,011		11332	1-243-433-11	CARBON	ZZN	3,6	1/6W	
R190	1-249-417-11	CARBON	1K	5%	1/6W		R353	1-249-420-11	CARBON	1.8K	5%	1/6W	
R191 R192	1-249-414-11 1-249-417-11	CARBON	560	5%	1/6W		R354	1-249-435-11	CARBON	33K	5%	1/6W	
R193	1-249-423-11	CARBON CARBON	1K 3.3K	5% 5%	1/6W 1/6W		R355   R356	1-249-433-11 1-249-437-11	CARBON	22K	5%	1/6W	
R194	1-249-423-11	CARBON	3.3K	5%	1/6W		R357	1-249-437-11	CARBON CARBON	47K 12K	5% 5%	1/6W 1/6W	
R195 R196	1-249-421-11	CARBON		5%	1/6W		R358	1-249-435-11	CARBON	33K	5%	1/6W	
R196	1-249-414-11 1-249-421-11	CARBON CARBON	560 2,2K	5% 5%	1/6W 1/6W		R359   R360	1-247-883-00 1-247-708-11	CARBON	150K	5%	1/6W	
	1-249-405-11		100		1/6W		R361	1-249-417-11	CARBON	470	5% 5%	1/4W	
R199	1-249-417-11		1K	5%	1/6W		R362		CARBON	1K 10K	5% 5%	1/6W 1/6W	
R303	1-249-469-11	CARRON	1000	E e/	1 // 1		1 0262	1 240 417 11	CARRON	•	F.41		
R304	1-249-409-11	CARBON CARBON	100K 39K	5% 5%	1/4W 1/6W		R363   R364	1-249-417-11 1-249-412-11	CARBON CARBON	1K 390	5% 5%	1/6W 1/6W	
R305	1-247-883-00	CARBON	150K		1/6W		R365	1-247-723-11	CARBON	6.8K		1/6W 1/4W	
R306	1-249-435-11	CARBON	33K	5%	1/6W		R366	1-247-891-00	CARBON	330K	5%	1/6W	
R308	1-249-409-11	CARBON	220	5%	1/6W		R367	1-249-437-11	CARBON	47K	5%	1/6W	
R310	1-247-722-11	CARBON	5.6K	5%	1/4W		R368	1-249-428-11	CARBON	8.2K	5%	1/6W	
R311	1-249-439-11		68K	5%	1/6W		R370	1-249-419-11	CARBON	1.5K		1/6W	
R312	1-249-439-11		68K	5%	1/6W		R371		CARBON	33K	5%	1/6W	



Ref.No. Part No.	Description			Remark	Ref.No.	Part No.	Description				Remark
R372 1-249-441-11 R373 1-249-435-11 R374 1-249-435-11 R375 1-249-423-11 R377 1-249-409-11	CARBON CARBON CARBON CARBON CARBON	100K 5% 33K 5% 33K 5% 3.3K 5% 220 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R438   R439   R440   R441   R442	1-249-431-11 1-249-418-11 1-249-417-11 1-249-420-11 1-249-421-11	CARBON CARBON CARBON CARBON CARBON	15K 1.2K 1K 1.8K 2.2K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R378 1-249-414-11 R379 1-249-429-11 R380 1-249-437-11 R381 1-249-440-11 R382 1-249-438-11	CARBON CARBON CARBON CARBON CARBON	560 5% 10K 5% 47K 5% 82K 5% 56K 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R443 R444 R445 R445 R446	1-249-408-11 1-249-439-11 1-249-431-11 1-249-417-11 1-249-414-11	CARBON CARBON CARBON CARBON CARBON	180 68K 15K 1K 560	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R383 1-215-479-00 R384 1-249-425-11 R385 1-249-414-11 R386 1-249-429-11 R387 1-249-417-11	CARBON CARBON CARBON	270K 5% 4.7K 5% 560 5% 10K 5% 1K 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R448 R449 R450 R451 R452	1-249-393-11 1-249-418-11 1-249-419-11 1-249-420-11 1-249-393-11	CARBON CARBON CARBON CARBON CARBON	10 1.2K 1.5K 1.8K 10	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R388 1-215-483-00 R389 1-249-433-11 R390 1-249-433-11 R391 1-249-437-11 R392 1-249-431-11	CARBON CARBON CARBON	390K 5% 22K 5% 22K 5% 47K 5% 15K 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R453 R454 R456 R456 R457	1-249-419-11 1-249-419-11 1-249-409-11 1-249-435-11 1-249-425-11	CARBON CARBON CARBON CARBON CARBON	1.5K 1.5K 220 33K 4.7K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R393 1-249-435-11 R394 1-249-429-11 R395 1-247-895-00 R396 1-249-419-11 R398 1-249-420-11	CARBON CARBON CARBON	33K 5% 10K 5% 470K 5% 1.5K 5% 1.8K 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R460   R461   R462   R463   R464	1-249-436-11 1-249-431-11 1-249-421-11 1-249-422-11 1-249-409-11	CARBON CARBON CARBON CARBON CARBON	39K 15K 2.2K 2.7K 220	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R401 1-249-412-11 R402 1-247-717-11 R403 1-249-427-11 R404 1-249-429-11 R406 1-249-412-11	CARBON CARBON CARBON	390 5% 2.2K 5% 6.8K 5% 10K 5% 390 5%	1/6W 1/4W 1/6W 1/6W 1/6W		R465   R466   R467   R468   R470	1-249-435-11 1-247-721-11 1-215-456-00 1-249-429-11 1-249-420-11	CARBON CARBON CARBON CARBON CARBON	33K 4.7K 30K 10K 1.8K	5% 5% 5% 5% 5%	1/6W 1/4W 1/6W 1/6W 1/6W	
R410 1-249-422-11 R411 1-215-489-00 R412 1-249-417-11 R413 1-249-425-11 R414 1-249-438-11	CARBON CARBON CARBON	2.7K 5% 680K 5% 1K 5% 4.7K 5% 56K 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R471   R472   R473   R474   R475	1-249-425-11 1-249-420-11 1-249-425-11 1-249-417-11 1-249-405-11	CARBON CARBON CARBON CARBON CARBON	4.7K 1.8K 4.7K 1K 100	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R415 1-249-429-11 R418 1-247-720-11 R419 1-249-429-11 R420 1-249-412-11 R421 1-249-438-11	CARBON CARBON CARBON CARBON	10K 5% 3.9K 5% 10K 5% 390 5% 56K 5%	1/6W 1/4W 1/6W 1/6W 1/6W		R476   R477   R478   R479   R480	1-249-416-11 1-249-413-11 1-249-421-11 1-249-421-11 1-249-429-11	CARBON CARBON CARBON CARBON CARBON	820 470 2.2K 2.2K 10K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R422 1-249-427-11 R425 1-249-408-11 R426 1-249-435-11 R427 1-249-423-11 R429 1-249-429-11	CARBON CARBON CARBON CARBON	6.8K 5% 180 5% 33K 5% 3.3K 5% 10K 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R481 R482 R483 R484 R485	1-249-429-11 1-249-421-11 1-249-421-11 1-249-433-11 1-249-417-11	CARBON CARBON CARBON CARBON CARBON	10K 2.2K 2.2K 22K 1K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R430 1-249-423-11 R431 1-249-425-11 R432 1-249-428-11 R433 1-249-428-11 R434 1-249-418-11	CARBON CARBON CARBON	3.3K 5% 4.7K 5% 8.2K 5% 8.2K 5% 1.2K 5%	1/6W 1/6W		R486   R487   R488   R1100   R1101	1-249-435-11 1-249-435-11 1-249-435-11 1-249-405-11 1-249-437-11	CARBON	33K 33K 33K 100 47K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R435 1-249-417-11 R436 1-249-421-11 R437 1-249-431-11	CARBON	1K 5% 2.2K 5% 15K 5%	1/6W		R1102   R1105   R1106	1-249-429-11 1-249-431-11 1-249-399-11		10K 15K 33	5% 5% 5%	1/6W 1/6W 1/6W	



Ref.No. Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
R1107 1-249-437-11	CARBON	47K	5%	1/6W		I I R1367	1-202-730-00	SOL ID	8.2M	10%	1/2W	
R1108 1-249-405-11	CARBON	100	5%	1/6W		R1368	1-249-411-11	CARBON	330	5%	1/6W	
R1109 1-249-429-11	CARBON	10K	5%	1/6W		R1369	1-249-413-11	CARBON	470	5%	1/6W	
R1110 1-249-430-11	CARBON	12K	5%	1/6W			1-249-409-11	CARBON	220	5%	1/6W	
R1111 1-249-437-11	CARBON	47K	5%	1/6W		K13/1	1-249-413-11	CARBON	470	5%	1/6W	
R1112 1-249-441-11	CARBON	100K	5%	1/6W		R1375	1-249-425-11	CARBON	4.7K	5%	1/6W	
R1114 1-249-393-11	CARBON	10	5%	1/6W		R1376	1-215-479-00	CARBON	270K	5%	1/6W	
R1115 1-249-425-11	CARBON	4.7K	5%	1/6W			1-249-434-11	CARBON	27K	5%	1/6W	
R1304 1-247-704-11 R1305 1-247-704-11	CARBON	220 220	5% 5%	1/4W			1-249-410-11	CARBON	270	5%	1/6W	
K1303 1-247-704-11	CARBON	220	3,6	1/4W		R1379	1-249-405-11	CARBON	100	5%	1/6W	
R1306 1-247-704-11	CARBON	220	5%	1/4W		R1401	1-249-433-11	CARBON	22K	5%	1/6W	
R1307 1-247-704-11	CARBON	220	5%	1/4W			1-249-433-11	CARBON	22K	5%	1/6W	
R1308 1-249-429-11	CARBON	10K	5 <b>%</b>	1/6W			1-249-433-11	CARBON	22K	5%	1/6W	
R1309 1-247-704-11 R1310 1-249-437-11	CARBON CARBON	220 47K	5% 5%	1/4W 1/6W			1-249-433-11	CARBON	22K	5%	1/6W	
K1010 1-245-457-11	CARDON	7/K	J /a	1/04		K1405	1-249-437-11	CARBON	47K	5%	1/6W	
R1311 1-249-409-11	CARBON	220	5%	1/6W		R1406	1-249-437-11	CARBON	47K	5%	1/6W	
R1312 1-247-887-00	CARBON	220K	5%	1/6W			1-249-437-11	CARBON	47K	5%	1/6W	
R1313 1-247-725-11 R1314 1-249-429-11	CARBON CARBON	10K	5%	1/4W			1-249-437-11	CARBON	47K	5%	1/6W	_
R1315 1-249-435-11	CARBON	10K 33K	5% 5%	1/6W 1/6W			1-247-704-11 1-249-421-11	CARBON	220	5%	1/4W	F
1 213 100 11	CANDON	331	J 76	1/01		11410	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1316 1-249-435-11	CARBON	33K	5%	1/6W			1-247-725-11	CARBON	10K	5%	1/4W	
R1317 1-249-417-11	CARBON	1K	5%	1/6W			1-249-429-11	CARBON	10K	5%	1/6W	
R1318 1-249-417-11 R1319 1-249-417-11	CARBON	1K	5%	1/6W		R1413	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1320 1-249-409-11	CARBON CARBON	1K 220	5% 5%	1/6W 1/6W			VAD	IABLE RESISTO	D			
N2020 1 213 103-11	CARDON	220	9,6	1,011		i	VAN	TABLE RESISTO	<u> </u>			
R1322 1-249-440-11	CARBON	82K	5%	1/6W			1-230-626-41	RES, ADJ, CA	RBON 470	)		
R1323 1-249-429-11	CARBON	10K	5%	1/6W			1-230-631-11	RES, ADJ, CA				
R1324 1-247-881-00 R1325 1-249-409-11	CARBON CARBON	120K 220	5% 5%	1/6W 1/6W			1-230-630-11 1-230-271-00	RES, ADJ, CA				
R1326 1-249-409-11	CARBON	220	5%	1/6W			1-230-628-11	RES, ADJ, CA RES, ADJ, CA				
01207 1 015 400 00						1						
R1327 1-215-493-00 R1328 1-249-417-11	CARBON	1M	5%	1/6W		RV1302	1-230-628-11	RES, ADJ, CA	RBON 2.2	2K		
R1329 1-249-437-11	CARBON CARBON	1K 47K	5% 5%	1/6W 1/6W			TDA	NCEODMED				
R1330 1-249-417-11	CARBON	1K	5%	1/6W		ļ	IKA	NSFORMER				
R1331 1-247-849-00	CARBON	5.6K	5%	1/6W		T301	1-404-524-11	DAT				
01000 1 040 407 11		47	·			T401	1-404-584-11	COIL				
R1332 1-249-437-11 R1333 1-215-430-00	CARBON CARBON	47K 2.4K	5% 5%	1/6W 1/6W		ļ	CDV	CTA				
R1334 1-249-429-11	CARBON	10K	5%	1/6W			CRT	STAL				
R1335 1-249-409-11	CARBON	220	5%	1/6W		X101	1-567-192-11	OSCILLATOR.	CERAMIC			
R1337 1-249-405-11	CARBON	100	5%	1/6W		X358	1-567-505-11	OSCILLATOR,				
D1220 1 040 410 11	CARRON	1 50		1 (6)		X443	1-567-504-11	OSCILLATOR,				
R1339 1-249-419-11 R1340 1-249-409-11	CARBON CARBON	1.5K 220	5% 5%	1/6W 1/6W			*****	****				
R1341 1-249-437-11	CARBON	47K	5%	1/6W		*************************************				*****	*****	*****
R1342 1-249-405-11	CARBON	100	5%	1/6W		,	A-1245-395-A	FA BOARD, CO	MPLETE (	AEP. A	US ONLY	)
R1344 1-247-838-00	CARBON	2K	5%	1/6W		į		*****		,		,
R1345 1-249-409-11	CARBON	220	5%	1/6W		*	A-1245-414-A	FA BOARD, COMP		ONLY	)	
R1347 1-249-405-11	CARBON	100	5%	1/6W				******	****			
R1360 1-249-414-11	CARBON	560	5%	1/6W		i	CAP	ACITOR				
R1362 1-249-414-11	CARBON	560	5%	1/6W								
R1363 1-215-491-00	CARBON	820K	5%	1/6W		C601 A	1-136-360-51		0.22MF			
R1364 1-249-424-11	CARBON	3.9K	5%	1/6W			1-161-738-00 1-161-738-12	CERAMIC	0.0047M		20%	400V
R1365 1-249-437-11	CARBON	47K	5%	1/6W			1-125-222-21	CERAMIC ELECT(BLOCK)	0.0047M 330MF		20%	400V 400V
R1366 1-249-422-11	CARBON	2.7K		1/6W		C617	1-161-738-00	CERAMIC	0.0047M		20% 20%	400V 400V
						1 0510						
						C <b>6</b> 18	1-102-030-00	CERAMIC	330PF		10%	500V

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Ref.No. Part No.	Description		Remark	Ref.No	. Part No.	Description				Remark
C619 1-129-743-00 C620 1-124-126-00		10% 20%	400 V 16 V		<u>FUS</u>	<u>E</u>				
C620 1-124-126-00 C621 1-130-062-00 C622 1-124-344-91	FILM 0.0056MF	5% 20%	630 V 100 V	F601	<b>∆.1-532-299-11</b> *1-533-189-11	FUSE, TIME-LA	IG 5A/2	50y	NORTH I	
C623 1-161-973-00		10%	400 V			INECTOR	1001			
C624 1-161-973-00 C632 1-102-002-00		10% 10%	400 V 500 V	FA1	*1-506-348-XX					
C651 1-162-115-00	CERAMIC 330PF	10%	2KV 160V	FA2	*1-506-348-XX	3P PLUG (L)				
C652 1-125-294-00 C653 1-123-364-00	ELECT(BLOCK) 560MF ELECT 1000MF	20% 20%	50 V	FA3   FA4   FA6	*1-508-765-00 *1-508-767-00 *1-508-765-00	5P PLUG				
C654 1-123-338-00 C655 1-123-338-00		20% 20%	25V 25V	FA7		3P PLUG (M)	nn 60			
C656 1-162-318-11	CERAMIC 0.001MF	10%	500 V	FA9	*1-566-058-11 *1-564-529-11	CONNECTOR, BO	DARD TO	BOARD	5P	
C658 1-124-126-00 C659 1-102-030-00		20% 10%	25V 500V	FAIU	*1-564-529-11	CONNECTOR, BU	JARD 10	BOARD	) 5P	
C661 1-123-333-00		20%	25 <b>V</b>		<u>IC</u>					
C662 1-136-332-11 C663 1-124-038-00		5% 20%	630 V 50 V		8-719-800-82 8-759-145-58					
C664 1-124-038-00 C666 1-124-123-00		20% 20%	50V 10V	İ	COI					
C667 1-102-121-00	CERAMIC 0.0022MF	10%	50 <b>V</b>	   L601	1-407-365-00	-				
С668 A.1-136-360-51	FILM 0.22MF CERAMIC 0.0047MF	20% 20%	250V. 400V		1-407-780-00	COIL, SPOOK (	CHOKE			
C670 ♠. 1-161-738-12	CERAMIC 0.0047MF CERAMIC 0.0047MF	20% 20%	400V 400V	<u> </u>	<u>1C</u>	LINK				
	CERAMIC 0.0047MF		400V	PS651	1-532-675-00 1-532-686-00	LINK, IC LINK, IC				
C673 A. 1-161-738-12	CERAMIC 0.0047MF FILM 0.22MF	20%	400V 250V	PS654	1-532-637-00	LINK, IC				
C677 1-136-173-00 C682 1-130-062-00	FILM 0.47MF	5% 5%	50V 630V		TRA	NSISTOR				
C686 1-136-173-00	FILM 0.47MF	5%	50V	Q601 Q602	8-729-195-82 8-729-802-07	TRANSISTOR 25 TRANSISTOR 25		CA		
DIC	<u>DDE</u>			0002	3-701-833-01	HEAD, WASHER,	TAPPI		EW; Q60	)2
	DIODE S3WB60Z			Q651	4-365-216-00 8-729-109-53	SPACER, MICA; TRANSISTOR 2S				
	DIODE RD12E-B2 DIODE ERC24-06S			0050	*4-347-706-00	HEAT SINK (TR		1		
D607 8-719-815-55 D608 8-719-815-55				Q652 		TRANSISTOR 25	.C2785			
D609 8-719-925-06	DIODE ERC25-06S					ISTOR	tur Mint —	1 = = 22		
D651 8-719-900-26 D653 8-719-300-59	DIODE ERD29-08J DIODE CTU-12S			R604	1-217-328-11 1-247-289-11	CARBON	2.7 8.2M		7W 1W	F ASTERIOR
D654 8-719-300-59 *4-347-706-00				R609   R612	1-215-894-11 1-215-904-11	METAL OXIDE METAL OXIDE	2.2K 100K	5% 5%	2W. 2W	F F
	DIODE MC931			R613	1-215-895-11	METAL OXIDE	3.3K	5%	2W	F
D656 8-719-300-59 *4-347-706-00	DIODE CTU-12S HEAT SINK (TR); D656			R614	1-216-458-11 1-205-737-00	METAL OXIDE CEMENTED	1.8K 30	5% 10%	2W 7W	F
D658 8-719-110-03	DIODE RD7.5ES-B2			R623	1-247-718-11 1-249-409-11	CARBON CARBON	2.7K 220		1/4W 1/6W	
D659 8-719-110-03				R628	1-215-479-00	CARBON	270K		1/6W	
D661 8-719-815-55				R629	1-249-427-11	CARBON	6.8K	5 <b>%</b>	1/6W	_
D663 8-719-109-93 D664 8-719-100-65	DIODE RD6.2ES-B2 DIODE RD12E-B2			R630   R631	1-247-692-11 1-217-352-11	CARBON WIREWOUND	22 390	5% 10%	7W	F F
				R632   R652	1-217-192-00 1-216-430-11	WIREWOUND METAL OXIDE	0.22 390	10% 5%	2W 1W	F F

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Ref.No. Part No.	Description			Remark	Ref.No.	Part No.	Description			-	Remark
R653 1-249-425-11 R654 1-216-464-11 R662 1-249-436-11 R663 1-249-430-11 R664 1-249-441-11	CARBON METAL OXIDE CARBON CARBON CARBON	4.7K 5% 18K 5% 39K 5% 12K 5% 100K 5%	1/6W 2W 1/6W 1/6W 1/6W	F	     D603   D604   D606	DIO 8-719-815-55 8-759-157-40 8-719-911-19	DIODE 1S155 IC UPC574J				
R665 1-215-436-00 R666 1-247-713-11 R667 1-247-703-11 R669 1-247-720-11 R670 1-249-421-11	METAL CARBON CARBON CARBON CARBON	4.3K 1% 1K 5% 180 5% 3.9K 5% 2.2K 5%	1/6W 1/4W 1/4W 1/4W 1/6W		FC1 FC2	*1-562-516-11 *1-562-516-11					
R671 A 1-205-758-11 R673 A 1-244-945-91 R676 1-205-758-11 R677 1-216-346-00 R678 1-247-749-11	CEMENTED CARBON CEMENTED METAL OXIDE CARBON	100 10% 1M 5% 100 10% 0.56 5% 560 5%	10W 1/2W 10W 1W 1/2W			IC 8-759-100-75 <u>TRA</u> 8-729-178-54	NSISTOR	2SC2785			
R679 1-215-924-00 R680 1-217-353-11 R681 1-246-403-75 R683 1-216-488-11 R684 1-246-403-75	METAL OXIDE WIREWOUND CARBON METAL OXIDE CARBON  IABLE RESISTOR	15K 5% 470 10% 1.2 5% 18K 5% 1.2 5%	3W 7W 1/4W 3W 1/4W	F F	   R605   R606   R608   R611	RES 1-247-891-00 1-249-433-11 1-249-421-11 1-215-457-00	CARBON CARBON	330K 22K 2.2K 33K	5%	1/6W 1/6W 1/6W 1/6W	
RV651 1-230-230-00 RV652 1-226-702-00					R616 R621 R622 R624	1-215-452-00 1-249-429-11 1-249-433-11 1-249-425-11	CARBON CARBON CARBON	20K 10K 22K 4.7K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W	
T601 点.1-421-758-11 魚.1-421-974-11 T602 点.1-421-758-11 糸.1-421-974-11 T603 点.1-437-079-11	TRANSFORMER, L TRANSFORMER, L TRANSFORMER, L TRANSFORMER, L TRANSFORMER,	INE FILTER LINE FILTER INE FILTER	(AEP, AI (NG ONLY) (LFT) (AEP, AI (NG ONLY)	US ONLY)	R625   R626     R633   R634   R636   R637   R638	1-249-441-11 1-247-712-11 1-247-887-00 1-249-437-11 1-215-471-00 1-249-433-11 1-215-435-00	CARBON CARBON CARBON METAL	100K 820 220K 47K 120K 22K 3.9K	5%	1/6W 1/4W 1/6W 1/6W 1/6W 1/6W 1/6W	
T605 A.1-448-931-11 T607 1-421-975-11 <u>THE</u>	SRT TRANSFORMER, I RMISTOR	ANE FILTER			R639   R674   	- 12	RMISTOR	4.7K 82K	5%	1/6W 1/6W	
TH651 1-800-944-00 THP601& 1-806-387-11 THP602& 1-806-387-11	THERMISTOR (P	OSITIVE) OSITIVE)	<b>持持持</b> 不			<u>. 1-800-944-11</u>	,				****
*1-621-548-11		******	******	*****	     	*A-1270-212-A *A-1270-223-A	QA BOARD, CO	*****			
	SPACER, SUPPO	RT			     	1-537-075-11 1-537-076-11	TERMINAL BO	ARD. INPU	IT/OUTE IT/OUTE	PUT PUT	
C614 1-123-875-91	MYLAR ELECT ELECT CERAMIC  ELECT ELECT FILM CERAMIC	0.1MF 0.0022MF 10MF 10MF 0.001MF 10MF 1MF 0.01MF 330PF 0.1MF	10% 5% 20% 20% 10% 20% 5% 10%	100V 50V 16V 50V 50V 50V 50V 50V 50V 50V 100V	C1701 C1702 C1703 C1704	CAP. 1-124-236-00 1-124-247-00 1-124-236-00 1-124-247-00 1-124-247-00	ELECT ELECT ELECT ELECT	47MF 10MF 10MF 47MF 10MF		20% 20% 20% 20%	16V 25V 25V 16V 25V

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Ref.No. Part No.	Description			Remark	Ref.No.	Part No.	Description				Remark
C1706 1-124-247-00 C1707 1-124-247-00 C1708 1-124-236-00	ELECT ELECT ELECT	10MF 10MF 47MF	20% 20% 20%	25V 25V 16V	R1705   R1706   R1707	1-247-104-00 1-249-417-11 1-215-491-00	CARBON CARBON CARBON	75 1K 820K		1/4W 1/6W 1/6W	110000
C1709 1-124-247-00 C1710 1-102-965-00	ELECT CERAMIC	10MF 39PF	20% 5%	25 <b>V</b> 50 <b>V</b>		1-249-417-11 1-215-491-00	CARBON CARBON	1K 820K	5% 5%	1/6W 1/6W	
C1712 1-102-965-00 C1714 1-102-965-00	CERAMIC CERAMIC	39PF	5% 5%	50 V 50 V	R1711	1-247-104-00 1-249-414-11	CARBON CARBON	75 560	5% 5%	1/4W 1/6W	
C1715 1-124-247-00 C1716 1-124-247-00 C1717 1-124-247-00	ELECT ELECT ELECT	10MF 10MF 10MF	20% 20% 20%	25V 25V 25V	R1713	1-247-895-00 1-249-414-11 1-247-895-00	CARBON CARBON CARBON	470K 560 470K	5% 5% 5%	1/6W 1/6W 1/6W	
C1718 1-124-247-00 C1719 1-124-236-00	ELECT ELECT	10MF 47MF	20% 20%	25V 16V	   R1715   R1716	1-247-104-00 1-249-417-11	CARBON CARBON	75 1K	5% 5%	1/4W 1/6W	
C1720 1-124-236-00	ELECT	47MF	20%	16V	R1717	1-215-491-00	CARBON	820K	5%	1/6W	
C1721 1-124-236-00 C1722 1-124-236-00	ELECT ELECT	47MF 47MF	20% 20%	16V 16V	R1718   R1719	1-247-708-11 1-249-408-11	CARBON CARBON	470 180	5% 5%	1/4W 1/6W	
C1723 1-124-247-00	ELECT	10MF	20%	257	R1720	1-249-421-11	CARBON	2.2K	5%	1/6W	
C1728 1-102-973-00 C1729 1-102-973-00	CERAMIC CERAMIC	100PF 100PF	5% 5%	50 V 50 V	R1721   R1722	1-247-708-11	CARBON	470	5%	1/4W	
C1731 1-102-973-00	CERAMIC	100PF	5%	50 V		1-249-408-11 1-249-421-11	CARBON CARBON	180 2.2K	5% 5%	1/6W 1/6W	
C1732 1-102-973-00	CERAMIC	100PF	5%	50 V		1-247-708-11	CARBON	470	5%	1/4W	
C1738 1-102-973-00 C1743 1-102-973-00	CERAMIC CERAMIC	100PF 100PF	5%	50V		1-249-408-11	CARBON	180	5%	1/6W	
C1743 1-102-973-00 C1744 1-102-973-00	CERAMIC	100PF	5% 5%	50V 50V		1-247-895-00 1-247-713-11	CARBON CARBON	470K 1K	5% 5%	1/6W 1/4W	
C1747 1-102-965-00	CERAMIC	39PF	5%	50V		1-215-491-00	CARBON	820K	5%	1/6W	
C1748 1-102-965-00		39PF	5%	50 V		1-247-710-11	CARBON	560	5%	1/4W	
C1749 1-102-965-00 C1750 1-102-965-00	CERAMIC	39PF	5%	50 V	R1730	1-247-895-00	CARBON	470K	5%	1/6W	
C1752 1-102-973-00	CERAMIC CERAMIC	39PF 100PF	5% 5%	50 V 50 V		1-247-713-11 1-215-491-00	CARBON	1K	5%	1/4W	
C1753 1-102-965-00	CERAMIC	39PF	5%	50V		1-247-104-00	CARBON CARBON	820K 75	5% 5%	1/6W 1/4W	
DIO						1-247-104-00	CARBON	75	5%	1/4W	
D1703 8-719-100-38	DIODE DOC 25	. 00			R1736	1-247-104-00	CARBON	75	5%	1/4W	
D1703 8-719-100-38 D1706 8-719-100-38	DIODE RD6.2E					1-247-104-00 1-249-417-11	CARBON	75	5%	1/4W	
D1707 8-719-100-38	DIODE RD6.2E				R1739	1-247-104-00	CARBON CARBON	1K 75	5% 5%	1/6W 1/4W	
D1708 8-719-100-38 D1709 8-719-100-38	DIODE RD6.2E DIODE RD6.2E	-B2				1-249-429-11	CARBON	10K	5%	1/6W	
D1710 8-719-100-38	DIODE RD6.2E	- R2				1-249-412-11	CARBON	390	5%	1/6W	
	DIODE RD6.2E				R1743   R1744	1-247-713-11 1-215-491-00	CARBON CARBON	1K 820K	5% 5%	1/4W 1/6W	
						1-249-429-11	CARBON	10K	5%	1/6W	
<u>JAC</u>					!	1-249-406-11	CARBON	120	5%	1/6W	
J25 1-561-534-41	SOCKET 21P					1-249-417-11 1-247-104-00	CARBON	1K	5%	1/6W	
						1-249-401-11	CARBON CARBON	75 47	5% 5%	1/4W 1/6W	
COI	IL.				R1753	1-249-401-11	CARBON	47	5%	1/6W	
L1770 1-408-604-00	— MICRO INDUCTO	OR 12UH (WG (	ONLY)		l	1-249-401-11		47	5%	1/6W	
						1-249-418-11		1.2K		1/6W	
CON	INECTOR				R1760	1-249-418-11 1-215-483-00	CARBON	1.2K 390K		1/6W 1/6W	
041 +1 500 055 11	DIN CONSTA	'00 3D			R1761	1-215-483-00	CARBON	390K		1/6W	
QA1 *1-566-055-11 QA2 *1-560-278-00						1-215-483-00		390K		1/6W	
RES	SISTOR				R1768	1-215-483-00 1-249-406-11 1-247-710-11	CARBON CARBON	390K 120	5%	1/6W 1/6W	
R1700 1-247-104-00	CARBON	75 5%	1/4W		ן עדי ו	1-24/-/10-11	CARDUN	560	5%	1/4W	
R1701 1-249-417-11		1K 5%	1/6W								
R1702 1-215-491-00 R1703 1-249-417-11		820K 5% 1K 5%	1/6W 1/6W								
R1704 1-215-491-00		820K 5%	1/6W								



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Ref.No. Part No.					Part No.	Description		Remark
SW	<u>ITCH</u>			-	DIO	<u>DDE</u>		
SW1 1-570-145-11 SW2 1-570-145-11 SW3 1-570-145-11 SW4 1-570-145-11 SW5 1-570-145-11	SWITCH, SLIDE SWITCH, SLIDE SWITCH, SLIDE SWITCH, SLIDE SWITCH, SLIDE			D1771   D1772   D1773   D1774	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		
*********	******	*****	*****	D1775	8-719-911-19	DIODE 155119		
	QB BOARD, COMPLETE			D1776 D1777 D1780	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		
<del>-</del>	PACITOR			01702	0 710 011 10	D100# 100115		
C1777 1-102-074-00 C1778 1-102-074-00 C1779 1-124-475-11 C1781 1-101-004-00 C1788 1-124-247-00 C1789 1-124-247-00	CERAMIC   0.0018	4F 10% 20% F 20% 20%	50V 50V 16V 50V 25V 25V	D1783   D1784   D1787   D1788	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE EQBO1-06 DIODE RD9.1ES-B3 DIODE RD5.6ES-B3 DIODE 1SS119 DIODE 1SS119		
C1790 1-124-236-00	ELECT 47MF	20%	16V		<u>1C</u>			
C1791 1-124-236-00 C1792 1-102-959-00 C1793 1-101-004-00 C1794 1-124-236-00 C1795 1-101-004-00	ELECT 47MF CERAMIC 22PF CERAMIC 0.01M ELECT 47MF CERAMIC 0.01M	20%	16V 50V 50V 16V 50V	IC1771 IC1772 IC1773	8-759-800-65 8-759-140-66 8-759-102-37 8-759-102-37 8-759-900-86	IC UPD4052BC IC UPD4052BC		
C1799 1-124-471-00 C1800 1-124-236-00 C1801 1-124-475-11 C1802 1-102-971-00 C1803 1-124-471-00	ELECT 1000M ELECT 47MF ELECT 470MF CERAMIC 82PF ELECT 1000M	20% 20% 5%	6.3V 16V 16V 50V 6.3V	j IC1776     	8-759-901-38 8-759-900-09	<u>L</u>		
				j L1770	1-408-239-00	MICRO INDUCTOR 4.7	7MMH	
C1804 1-102-971-00 C1806 1-101-361-00 C1807 1-102-111-00 C1808 1-101-004-00 C1810 1-124-236-00	CERAMIC 82PF CERAMIC 150PF CERAMIC 270PF CERAMIC 0.01M ELECT 47MF	5% 5% 10% 20%	50V 50V 50V 50V 16V	     Q1773   Q1774   Q1775	TRA 8-729-117-54 8-729-178-54 8-729-117-54	NSISTOR  TRANSISTOR 2SA1175 TRANSISTOR 2SC2785 TRANSISTOR 2SA1175	5	
C1811 1-124-236-00	ELECT 47MF	20%	16V		8-729-178-54	TRANSISTOR 2SC2785		
C1813 1-124-236-00 C1820 1-124-236-00 C1821 1-101-004-00 C1823 1-124-267-11	ELECT 47MF ELECT 47MF CERAMIC 0.01MF ELECT 0.1MF	20% 20% : 20%	16V 16V 50V 50V	Q1778 Q1779	8-729-178-54 8-729-178-54 8-729-117-54 8-729-117-54	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SA1175 TRANSISTOR 2SA1175	j j	
C1824 1-124-267-11	ELECT 0.1MF	20%	50 <b>y</b>		8-729-178-54	TRANSISTOR 2SC2785		
C1825 1-124-267-11 C1827 1-101-880-00 C1828 1-123-611-00	ELECT 0.1MF CERAMIC 47PF ELECT 1MF	20% 5% 20%	50V 50V 50V	Q1784 Q1785	8-729-900-89 8-729-178-54	TRANSISTOR DTC144E TRANSISTOR 2SC2785	:S	
C1830 1-124-236-00	ELECT 47MF	20%	16V		8-729-178-54	TRANSISTOR 2SC2785	•	
C1831 1-101-004-00 C1832 1-124-236-00 C1833 1-101-004-00 C1834 1-101-004-00	CERAMIC 0.01MF ELECT 47MF CERAMIC 0.01MF CERAMIC 0.01MF	20%	50V 16V 50V 50V	Q1788 Q1789 Q1790	8-729-177-43 8-729-117-54 8-729-178-54 8-729-177-43	TRANSISTOR 2SD774 TRANSISTOR 2SA1175 TRANSISTOR 2SC2785 TRANSISTOR 2SD774		
C1835 1-124-236-00	ELECT 47MF	20%	160		8-729-900-36	TRANSISTOR DTC124E	S	
C1837 1-124-963-11 C1838 1-101-880-00 C1839 1-124-236-00 C1840 1-101-004-00	ELECT 33MF CERAMIC 47PF ELECT 47MF CERAMIC 0.01MF	20% 5% 20%	16V 50V 16V 50V	Q1793 Q1794 Q1795 Q1796	8-729-178-54 8-729-117-54 8-729-178-54 8-729-178-54 8-729-178-54	TRANSISTOR 2SC2785 TRANSISTOR 2SA1175 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		
				Q1797	8-729-178-54	TRANSISTOR 2SC2785		



Ref.No.	Part No.	Description		Remar	Ref.No.	Part No.	Description				Remark
01799 01802	8-729-178-54	TRANSISTOR 2SA1 TRANSISTOR 2SC2 TRANSISTOR DTC1 TRANSISTOR 2SC2 TRANSISTOR 2SC2	175 785 24ES 785 785		R1786 R1787 R1788 R1794	1-249-441-11 1-249-441-11 1-249-433-11 1-249-413-11 1-247-895-00	CARBON CARBON	100K 100K 22K 470 470K		1/6W 1/6W 1/6W 1/6W 1/6W	
01808	8-729-178-54 8-729-178-54 8-729-178-54 8-729-178-54 8-729-178-54	TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2	785 785 785 785 785		R1795 R1796 R1797 R1798 R1799	1-249-422-11 1-249-440-11 1-249-434-11 1-249-425-11 1-249-419-11	CARBON CARBON CARBON CARBON CARBON	2.7K 82K 27K 4.7K 1.5K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
01811 01812 01813	8-729-178-54 8-729-178-54 8-729-178-54 8-729-178-54 8-729-178-54	TRANSISTOR 2SC2 TRANSISTOR 2SC2	785 785 785 785		R1800 R1801 R1802 R1804	1-249-425-11 1-249-440-11 1-249-434-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON	4.7K 82K 27K 10K 10K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
Q1816 Q1817 Q1818	8-729-178-54 8-729-178-54 8-729-178-54 8-729-900-36 8-729-900-36	TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR DTC1 TRANSISTOR DTC1	785 785 24ES		R1807 R1808 R1809	1-249-406-11 1-247-849-00 1-247-849-00 1-249-408-11 1-215-422-00	CARBON CARBON CARBON CARBON CARBON	120 5.6K 5.6K 180 1.1K	5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
Q1823 Q1825	8-729-900-36 8-729-178-54 8-729-178-54 8-729-178-54 8-729-178-54	TRANSISTOR DTC1 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2	24ES 785 785 785 785 785		R1811   R1813   R1814   R1815   R1816	1-249-413-11 1-249-413-11 1-249-413-11 1-249-412-11 1-249-413-11	CARBON CARBON CARBON CARBON CARBON	470 470 470 390 470	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
	8-729-178-54 8-729-178-54 8-729-178-54 8-729-177-43 8-729-900-36	TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SD7 TRANSISTOR DTC1	2785 2785 2785 274 24ES		R1817   R1819   R1820   R1821   R1822	1-215-422-00 1-249-413-11 1-249-406-11 1-249-406-11 1-249-406-11	CARBON CARBON CARBON CARBON CARBON	1.1K 470 120 120 120	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
	8-729-900-36	TRANSISTOR 2SC2 TRANSISTOR DTC3	785 124ES		R1823	1-249-406-11 1-247-881-00 1-247-881-00 1-247-881-00	CARBON CARBON	120 120K 120K 120K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W	
		INECTOR			R1827	1-249-429-11		10K	5%	1/6W	
QB12 QB13 QB14	*1-566-058-11 *1-566-056-11 *1-566-056-11 *1-566-054-11 *1-566-057-11	PIN, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR	6P 4P 4P 2P 5P		R1828   R1829   R1830   R1831   R1832	1-249-417-11 1-249-429-11 1-249-429-11 1-249-417-11 1-249-429-11	CARBON CARBON	1K 10K 10K 1K 10K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
		PIN, CONNECTOR PIN, CONNECTOR	4P 7P			1-249-429-11	CARBON	10K	5%	1/6W	
QD17		SISTOR			į R1834	1-249-417-11 1-249-428-11	CARBON	1K 8.2K	5% 5%	1/6W 1/6W	
- 4			1004 54	1 (4)	R1836	1-249-422-11	CARBON	2.7K 1K		1/6W 1/6W	
R1771 R1776	1-249-469-11 1-249-405-11		100K 5% 100 5%	1/4W 1/6W	R1837						
R1777 R1778	1-249-405-11 1-249-405-11		100 5% 100 5%	1/6W 1/6W	R1838   R1839			5.6K 5.6K		1/6W 1/6W	
R1779	1-249-441-11		100k 5%	1/6W	R1841 R1842	1-249-433-11	CARBON	22K 22K	5% 5%	1/6W 1/6W	
R1780	1-249-433-11		22K 5%	1/6W	R1842			22K	5%	1/4W	
R1781 R1782	1-249-441-11 1-249-425-11		100K 5% 4.7K 5%	1/6W 1/6W	   R1844	1-249-405-11	CARBON	100	5%	1/6W	
R1783	1-249-469-11	CARBON	100K 5%	1/4W 1/6W	R1845 R1846	1-249-433-11	CARBON	22K 1.2K	5% 5%	1/6W 1/4W	
R1784	1-249-433-11	CARBON	22K 5%	1/ UN	1 47040	1-6-7,-,1-311	CHILDON	- • - 1	- ~	-,	



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Ref.No.	Part No.	Description				Remark	Ref.No.	. Part No.	Description				Remark
R1847	1-249-437-11	CARBON	47K	5%	1/6W		   R1923	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1848	1-249-428-11	CARBON	8.2K		1/6W		R1925	1-249-440-11	CARBON	82K	5%	1/6W	
	1-249-437-11	CARBON	47K	5%	1/6W		R1926	1-249-440-11	CARBON	82K	5%	1/6W	
	1-249-428-11	CARBON	8.2K	5%	1/6W		R1927	1-249-440-11	CARBON	82K	5%	1/6W	
K1821	1-249-465-11	CARBON	47K	5%	1/4W		R1928	1-249-405-11	CARBON	100	5%	1/6W	
	1-249-428-11	CARBON	8.2K	5%	1/6W		R1929	1-247-849-00	CARBON	5.6K	5%	1/6W	
	1-249-416-11	CARBON	820	5%	1/6W		R1930	1-247-714-11	CARBON	1.2K		1/4W	
R1854	1-249-416-11	CARBON	820	5%	1/6W		R1931	1-249-417-11	CARBON	1K	5%	1/6W	
D1822	1-249-417-11 1-249-417-11	CARBON	1K	5%	1/6W		R1932	1-249-417-11	CARBON	1K	5%	1/6W	
K1030	1-249-41/-11	CARBON	1K	5%	1/6W		R1935	1-249-428-11	CARBON	8.2K	5%	1/6W	
R1857	1-247-713-11	CARBON	1K	5%	1/4W		R1936	1-249-430-11	CARBON	12K	5%	1/6W	
	1-249-433-11	CARBON	22K	5%	1/6W		R1937	1-249-428-11	CARBON	8.2K	5%	1/6W	
	1-249-417-11 1-249-429-11	CARBON	IK 10r	5%	1/6W		R1938	1-249-428-11	CARBON	8.2K		1/6W	
	1-249-429-11	CARBON	10K 1K	5% 5%	1/6W		R1939	1-249-428-11	CARBON	8.2K		1/6W	
K1001	1-249-417-11	CARBON	1V	3,6	1/6W		R1940	1-249-428-11	CARBON	8.2K	5%	1/6W	
R1862	1-249-417-11	CARBON	1K	5%	1/6W		R1941	1-249-428-11	CARBON	8.2K	5%	1/6W	
R1863	1-249-433-11	CARBON	22K	5%	1/6W		R1942	1-247-695-11	CARBON	39	5%	1/4W	
	1-249-417-11 1-249-425-11	CARBON CARBON	1K	5% 5%	1/6W		R1945	1-249-428-11	CARBON	8.2K		1/6W	
	1-249-412-11	CARBON	4.7K 390	5%	1/6W 1/6W		R1950	1-249-428-11	CARBON	8.2K	5%	1/6W	
	1 213 (12:11	CARDON	330	J 76	1/08		R1951   R1952	1-249-429-11 1-215-865-11	CARBON METAL OXIDE	10K 220	5% 5%	1/6W 1W	F
	1-249-417-11	CARBON	1K	5%	1/6W				TIETNE ONTDE	220	J 76	14	,
	1-249-412-11	CARBON	390	5%	1/6W		R1953	1-249-423-11	CARBON	3.3K	5%	1/6W	
	1-249-421-11	CARBON	2.2K	5 <b>%</b>	1/6W		R1955	1-249-435-11	CARBON	33K	5%	1/6W	
	1-249-421-11 1-249-421-11	CARBON	2.2K	5%	1/6W		R1956	1-249-434-11	CARBON	27K	5%	1/6W	
KIO/I	1-249-421-11	CARBON	2.2K	5%	1/6W		R1965   R1966	1-247-712-11 1-247-712-11	CARBON CARBON	820 8 <b>20</b>	5% 5%	1/4W 1/4W	
	1-249-433-11	CARBON	22K	5%	1/6W		112300		CARDON	020	3,6	1/48	
	1-249-429-11	CARBON	10K	5%	1/6W		R1967	1-247-712-11	CARBON	820	5%	1/4W	
	1-249-413-11	CARBON	470	5%	1/6W		R1968	1-247-881-00	CARBON	120K	5%	1/6W	
	1-215-432-00 1-249-420-11	CARBON	3K	5%	1/6W		R1969	1-249-440-11	CARBON	82K	5%	1/6W	
K10/0	1-249-420-11	CARBON	1.8K	5%	1/6W		R1971   R1972	1-249-417-11 1-249-417-11	CARBON CARBON	1K 1K	5% 5%	1/6W	
R1877	1-249-429-11	CARBON	10K	5%	1/6W		1 11237.	1-243-417-11	CARDON	IK	J /6	1/6W	
	1-249-469-11	CARBON	100K		1/4W		R1973	1-249-417-11	CARBON	1K	5%	1/6W	
	1-249-417-11	CARBON	1K	5%	1/6W		R1974	1-247-713-11	CARBON	1K	5%	1/4W	
	1-249-422-11	CARBON	2.7K	5%	1/6W		*****	******	*****			-	
R1882	1-249-417-11	CARBON	1K	5%	1/6W		į.	******************			****	*****	********
R1883	1-249-433-11	CARBON	22K	5%	1/6W		i	*A-1330-801-A	C BOARD, COM				
R1884	1-249-417-11	CARBON	1K	5%	1/6W		i			~~~~			
	1-249-416-11	CARBON	820	5%	1/6W		i	1-526-798-21	SOCKET, CRT				
R1886	1-249-417-11	CARBON	1K	5%	1/6W		İ	*4-379-160-01	COVER (REAR	LID). C	V		
R1887	1-247-715-11	CARBON	1.5K	5%	1/4W		1	*4-379-167-01	COVER (MAIN)				
R1888	1-249-417-11	CARBON	1K	5%	1/6W		i i	CON	NECTOR				
R1892	1-249-415-11	CARBON	680	5%	1/6W		İ						
	1-249-433-11	CARBON	22K	5 <b>%</b>	1/6W		C1	*1-506-371-00	2P PLUG (L)				
R1894	1-249-428-11	CARBON	8.2K		1/6W		C2	*1-508-765-00	3P PLUG (M)				
K1896	1-249-415-11	CARBON	680	5%	1/6W			*1-508-765-00	3P PLUG (M)	00 20			
R1898	1-247-849-00	CARBON	5.6K	5%	1/6W		C4   C5	*1-566-055-11 *1-566-061-11	PIN, CONNECT PIN, CONNECT				
R1899	1-247-849-00	CARBON		5%	1/6W		C8	*1-508-784-00	1P PLUG	U JI			
R1901	1-249-429-11	CARBON	10K	5%	1/6W		i	. 222 704 00	, I LLUU				
R1902	1-249-417-11	CARBON	1K	5%	1/6W		ļ	CVD	ACITOR				
R1903	1-249-412-11	CARBON	390	5%	1/6W								
R1921	1-249-424-11	CARBON	3.9K	5%	1/6W		C701	1-162-116-00	CERAMIC	680PF		10%	2KV
R1922	1-249-424-11	CARBON	3.9K	5%	1/6W		C702	1-129-714-00	FILM	0.01MF		10%	630 V
							C703	1-123-356-00	ELECT	10MF		20%	50V
							C704 C705	1-1 <b>23-948-00</b> 1-108-692-81	ELECT MVI AP	22MF 0.01MF		20% 10%	250V 200V
							. 6,03	7-100-03K-01	MYLAR	O.OINF		10%	LUUV



Ref	.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description				Re	mark
	706	1-129-751-00	FILM	0.1MF	10% 10%	400V 50V		RES	ISTOR					
	707 708	1-102-116-00 1-102-116-00	CERAMIC CERAMIC	680PF 680PF	10%	50 V	R701	1-216-397-11	METAL OXIDE	4.7	5%	3W	F	
	709	1-102-116-00	CERAMIC	680PF	10%	50V	R702	1-202-848-00	SOL ID	680K	10%	1/2W	•	
	710	1-102-116-00	CERAMIC	680PF	10%	50V	R703	1-202-838-00	SOL ID	100K	10%	1/2W		
							R704	1-202-846-00	SOL ID	470K	10%	1/2W		
	711	1-123-356-00	ELECT	10MF	20%	25 <b>V</b>	R705	1-202-549-00	SOL ID	100	5%	1/2W		
	712	1-102-114-00	CERAMIC	470PF	10%	50V	-706	1 000 000 00	001.70	1004	104	1 (0)		
	713	1-102-116-00	CERAMIC	680PF	10%	50V	R706	1-202-838-00	SOLID	100K	10%	1/2W 1/2W		
	714 715	1-162-622-11	CERAMIC	330PF	10%	6.3KV	R707   R708	1-202-842-11 1-202-818-00	SOL ID SOL ID	220K 1K		1/2W		
U/	13	1-102-125-00	CERAMIC	0.0047MF	10%	50 V	I R709	1-202-818-00	SOLID	1K		1/2W		
C7	718	1-102-074-00	CERAMIC	0.001MF	10%	50V	R710	1-202-818-00	SOL ID	îĸ		1/2W		
	719	1-102-050-00	CERAMIC	0.01MF	20%	500V	""-"		50215			-,		
							R711	1-202-837-00	SOL ID	82K	10%	1/2W		
		DIO	DE				R712	1-202-842-11	SOL ID	220K		1/2W		
							R713	1-216-486-00	METAL OXIDE		5%	3W	F	
	701	8-719-911-19					R714	1-249-409-11	CARBON	220	5%	1/6W	_	
	702	8-719-911-19	DIODE 1SS119				R716	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F	
	703	8-719-911-19	DIODE 188119				0717	1 040 400 11	CARRON	222	r.	1./64		
	704	8-719-911-19	DIODE 188119				R717	1-249-409-11	CARBON	220	5%	1/6W 3W	F	
יט	705	8-719-911-19	DIODE 1SS119	,			R720 R721	1-216-486-00 1-249-409-11	METAL OXIDE CARBON	8.2K 220	5% 5%	3W 1/6W	Г	
n7	706	8-719-911-19	DIODE 1SS119	1			R722	1-249-405-11	CARBON	100	5%	1/6W		
	707	8-719-911-19	DIODE 155119				R723	1-249-405-11	CARBON	100	5%	1/6W		
	708	8-719-911-19	DIODE 155119				1	1 213 100 11	0/11/0011	100	0,0	-, 0		
	709	8-719-911-19	DIODE 1SS119				R724	1-249-405-11	CARBON	100	5%	1/6W		
	710	8-719-901-83	DIODE 15583				R725	1-249-429-11	CARBON	10K	5%	1/6W		
							R726	1-249-409-11	CARBON	220	5%	1/6W		
	711	8-719-901-83	DIODE 1883				R727	1-249-429-11	CARBON	10K	5%	1/6W		
	712	8-719-901-83	DIODE 1SS83				R728	1-215-404-00	CARBON	200	5%	1/6W		
יט	713	8-719-901-83	DIODE 1883				I I R729	1-249-385-11	CARBON	2.2	5%	1/6W		
		COI	1				R730	1-249-408-11	CARBON	180	5%	1/6W		
		<u>C01</u>	<u>. L</u>				R731	1-247-704-11	CARBON	220	5%		F	
1.7	701	1-407-711-00	MICRO INDUCT	TOR 330UH			R732	1-247-704-11	CARBON	220	5%	1/4W	F	
	702	1-407-705-00	MICRO INDUCT	FOR 100UH			R733	1-247-704-11	CARBON	220	5%	1/4W	F	
	703	1-407-703-00	MICRO INDUCT	TOR 68UH										
	704	1-408-442-11	MICRO INDUCT				R734	1-247-717-11	CARBON	2.2K	5%	1/4W		
L7	705	1-408-404-00	MICRO INDUCT	FOR 3.9UH			R735	1-247-138-00	CARBON	2K	5 <b>%</b>	1/4W		
	70.0	1 407 705 00	MICOO INCHO	rop 100HH			R736	1-247-717-11 1-249-441-11	CARBON	2.2K 100K	5% 5%	1/4W 1/6W		
	706 707	1-407-705-00 1-408-434-00	MICRO INDUCT				R737   R739	1-247-887-00	CARBON CARBON	220K	5%	1/6W		
L	, 0,	1-400-434-00	MICKO INDUCT	10K 2.2011			10, 55	1-247-007-00	CARDON	LLON	J 76	1,011		
		TRA	NSISTOR				R740	1-215-902-11	METAL OXIDE	47K	5%	2W	F	
		<del></del>					R741	1-249-438-11	CARBON	56K	5%	1/6W		
	701	8-729-326-11	TRANSISTOR 2	2502611			R742	1-249-429-11	CARBON	10K	5%	1/6W	F	
	702	8-729-178-54	TRANSISTOR 2				R743	1-249-429-11	CARBON	10K	5%	1/6W	F	
	703	8-729-200-17	TRANSISTOR 2				R744	1-247-725-11	CARBON	10K	5%	1/4W	F	
	704	8-729-326-11	TRANSISTOR 2				   D745	1 247 712 11	CARRON	11/	E e/	1 //14	F	
Ų	705	8-729-178-54	TRANSISTOR 2	2362785			R745   R746	1-247-713-11 1-215-879-51	CARBON METAL OYIDE	1K 47K	5% 5%	1/4W 1W	F	
n.	706	8-729-200-17	TRANSISTOR S	2541091			R747	1-247-725-11	CARBON	10K	5%	1/4W		
	707	8-729-200-17	TRANSISTOR 2				R775	1-247-779-00	CARBON	6.8	5%	1/6W	•	
	708	8-729-326-11	TRANSISTOR 2				R776	1-247-779-00	CARBON	6.8	5%	1/6W		
	709	8-729-178-54	TRANSISTOR 2				i							
	710	8-729-255-12	TRANSISTOR 2				R777	1-249-441-11	CARBON	100K	5%	1/6W		
							R799	1-202-842-11	SOL ID	220K		1/2W		
Q	712	8-729-255-12	TRANSISTOR 2						DEC					
Q?	714	8-729-200-17						VAR	IABLE RESISTOR	<u> </u>				
	715 716	8-729-200-17	TRANSISTOR 2				   DV 701	1-226-114-00	DEC VUI MEI	ראו פוא	7F 2 2	м		
ų,	716	8-729-200-17	TRANSISTOR 2	CONTURI				1-230-619-11						
									,,					



Ref.No.	Part No.	Description			Remark	lRef.No.	Part No.	Description			Remark
	1-228-731-00		RAMIC CARBON	470K		C564	1-102-244-00	CERAMIC	220PF	10%	500V
	1-228-729-00		RAMIC CARBON			C566	1-106-367-00	MYLAR	0.01MF	10%	100V
RV706	1-228-724-00	RES, ADJ, CE	RAMIC CARBON	10K		C568	1-106-212-00	MYLAR	0.047MF	10%	100V
++++++	*****					C570   C571	1-102-212-00 1-123-349-00	CERAMIC ELECT	820PF 1000MF	10% 20%	500V 35V
	******					63/1	1-123-349-00	בנבנו	1000/16	20%	331
1	*A-1345-708-A	D BOARD, COM				C572	1-102-244-00	CERAMIC	220PF	10%	500V
		******	*****			C573	1-123-935-00	ELECT	33MF	20%	160V
	CAP	ACITOR				C574   C575	1-106-369-00 1-123-024-00	ELECT	0.012MF 33MF	10%	200V 160V
						C576	1-162-114-00	CERAMIC	0.0047MF		2KV
C503	1-108-614-91	MYLAR	0.001MF	10%	100V	0570	1 104 000 00	F1 F0T	0.4745	004	50.4
C505 C506	1-106-212-00 1-124-902-00	MYLAR ELECT	0.047MF 0.47MF	10% 20%	100V 50V	C578	1-124-902-00 1-102-030-00	ELECT CERAMIC	0.47MF 330PF	20% 10%	50 V 500 V
C507	1-123-369-00	ELECT	4.7MF	20%	25 <b>v</b>	C580	1-108-689-11	MYLAR	0.0056MF	10%	200V
0500			0.01005	104	1004	C581	1-136-512-11	FILM	0.0106MF	3%	1.4KV
C508 C509	1-108-627-91 1-106-220-00	MYLAR MYLAR	0.012MF 0.1MF	10% 10%	100V 100V	C582	1-162-135-11	CERAMIC	5 <b>6</b> 0P <b>F</b>	10%	2KV
C510	1-106-220-00	MYLAR	0.01MF	10%	1007	C583	1-106-367-00	MYLAR	0.01MF	10%	100V
C511	1-123-330-00	ELECT	22MF	20%	16V	C586	1-162-115-00	CERAMIC	330PF	10%	2KV
C512	1-124-927-11	ELECT	4.7MF	20%	50 <b>V</b>	C587	1-129-747-00	FILM	0.047MF	10%	400V
C513	1-130-868-00	FILM	0.0056MF	5%	50 <b>v</b>	C588   C589	1-136-513-11 1-136-116-00	FILM FILM	0.82MF 1MF	5% 5%	200 V 200 V
C514	1-123-356-00	ELECT	10MF	20%	167	(309	1-130-110-00	LILM	TML	3/6	2004
C515	1-123-356-00	ELECT	10MF	20%	16V	C590	1-123-356-00	ELECT	10MF	20%	25 <b>v</b>
C516 C517	1-102-820-00 1-124-475-11	CERAMIC ELECT	330PF 470MF	5% 20%	50V 16V	C593	1-124-555-00	ELECT	1000MF	20%	16V
6317	1-124-4/5-11	ELECT	47000	20%	104	C598   C1510	1-123-332-00 1-106-367-00	ELECT MYLAR	47MF 0.01MF	20% 10%	16V 100V
C518	1-106-371-00	MYLAR	0.015MF	10%	100V	C1515	1-124-477-11	ELECT	47MF	20%	25V
C519	1-136-173-00	FILM	0.47MF	5%	50 V						
C520 C521	1-124-902-00 1-124-902-00	ELECT ELECT	0.47MF 0.47MF	20 <b>%</b> 20 <b>%</b>	50 <b>V</b> 50 <b>V</b>	C1516   C1517	1-124-927-11 1-124-902-00	ELECT	4.7MF 0.47MF	20% 20%	50V 50V
C522	1-124-791-11	ELECT	1MF	20%	50 V	C1517	1-108-630-91	ELECT MYLAR	0.022MF	10%	100V
						C1519	1-124-791-11	ELECT	IMF	20%	50 V
C523 C524	1-106-367-00	MYLAR	0.01MF 0.0047MF	10% 10%	100V 100V	C1520	1-123-875-91	ELECT	10MF	20%	50 V
C525	1-108-622-91 1-108-425-00	MYLAR MYLAR	0.0047FF	10%	200V	C1521	1-108-855-00	MYLAR	0.33MF	10%	50 V
C526	1-123-321-00	ELECT	220MF	20%	167	C1522	1-108-837-00	MYLAR	0.01MF	10%	50 V
C531	1-123-356-00	ELECT	10MF	20%	50 V	C1524	1-106-172-00	MYLAR	0.001MF	5%	50 V
C532	1-124-005-11	ELECT	4.7MF	20%	50 <b>v</b>	C1525	1-124-927-11 1-102-971-00	ELECT	4.7MF 82PF	20%	50V 50V
C535	1-131-501-00	TANTALUM	3.3MF	10%	10V	61320	1-102-9/1-00	CERAMIC	0277	5%	30 V
C536	1-131-375-00	TANTALUM	4.7MF	10%	6.3V	C1527	1-123-356-00	ELECT	10MF	20%	50 V
C537 C538	1-123-875-91 1-124-117-00	ELECT ELECT	10MF 680MF	20% 10%	50V 25V	C1528	1-123-356-00	ELECT	10MF	20%	50 V
C542	1-123-356-00	ELECT	10MF	20%	16V	C1529   C1531	1-124-791-11 1-102-231-11	ELECT CERAMIC	1MF 47PF	20% 10%	50 V 500 V
						C1532	1-124-445-00	ELECT	100MF	20%	167
C544 C546	1-130-996-00 1-124-477-11	FILM	0.047MF 47MF	5% 20%	50V					104	50
C551	1-108-630-91	ELECT MYLAR	0.022MF	10%	25V 100V	C1537	1-108-845-00	MYLAR	0.047MF	10%	50 V
C552	1-102-030-00	CERAMIC	330PF	10%	500 <b>v</b>	j	CON	INECTOR			
C553	1-106-192-00	MYLAR	0.0068MF	10%	100V	<u> </u>					
C554	1-123-345-00	ELECT	100MF	20%	35 V	D1	*1-508-766-00	4P PLUG (M)	on 1n		
C556	1-123-943-00	ELECT	1MF	20%	250V	D2   D3	*1-566-055-11 *1-566-054-11	PIN, CONNECT PIN, CONNECT			
Ç557	1-123-356-00	ELECT	10MF	20%	25V	D4	*1-508-767-00	5P PLUG	011 21		
C558 C559	1-123-356-00	ELECT	10MF	20%	16V	D5	*1-508-765-00	3P PLUG (M)			
C339	1-124-192-00	ELECT	4.7MF	20%	50 V	   D6	*1-564-038-00	CONNECTOR PL	HC DV (MINI	) 6P	
C560	1-106-208-00	MYLAR	0.033MF	10%	100 V	1 D7	*1-566-056-11	PIN, CONNECT		. , UF	
C561	1-108-614-91	MYLAR	0.001MF	10%	1000	D9	*1-566-055-11	PIN, CONNECT			
C562 C563	1-108-616-91 1-123-943-00	MYLAR ELECT	0.0015MF 1MF	10% 20%	100V 250V	D10	*1-508-766-00	4P PLUG (M)			
6303	1-160-340-00		±cn	2010	2304	D11	*1-508-765-00	3P PLUG (M)			



Ref.No.	Part No.	<u>Description</u> <u>Remark</u>	Ref.No.	Part No.	Description	Remark
D14 · ·	*1-566-054-11	PIN, CONNECTOR 2P	   L564   L1510	1-407-717-00 1-459-115-00	MICRO INDUCTOR 1MMH	
	<u>D10</u>	<u>DE</u>				
D501 D502 D504	8-719-911-55 8-719-911-19	DIODE 1SS119 DIODE UOSG DIODE 1SS119	     NL601 	1-519-237-11		
D505 D507		DIODE 1SS119 DIODE RD5.6E-B2			INSISTOR	
D551 D554	8-719-911-19 8-719-911-55 8-719-300-65	DIODE RD8.2ES-B1 DIODE 1SS119 DIODE U05G DIODE ESIF	Q507   Q508   0551	8-729-178-54 8-729-178-54 8-729-117-54 8-729-168-82	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SA1175 TRANSISTOR 2SC2688	
D558 D560 D561 D562 D1510	8-719-300-76 8-719-305-15 8-719-928-08 8-719-300-65 8-719-911-55	DIODE V19G  DIODE RH1A  DIODE GH3F  DIODE ERD28-08S  DIODE ES1F  DIODE U05G  DIODE 1SS119  DIODE 1SS119  DIODE U05G  DIODE U05G  DIODE U05G  DIODE U05G  DIODE V19G  DIODE V19G  DIODE V19G  DIODE V19G  DIODE MC931	Q552     Q553   Q1510   Q1511	8-729-203-80 4-367-513-00 8-729-313-42 8-729-117-54 8-729-178-54	TRANSISTOR 2SD1555-LB-S1 SPACER, MICA; Q552 TRANSISTOR 2SD1134 TRANSISTOR 2SA1175 TRANSISTOR 2SC2785	
D1511 D1512 D1513 D1514 D1516	8-719-911-19 8-719-911-19 8-719-911-55 8-719-911-55 8-759-157-40	DIODE 1SS119 DIODE 1SS119 DIODE UO56 DIODE UO56 DIODE UPC574J	Q1512   Q1513   Q1514   Q1515   Q1516	8-729-900-36 8-729-900-63 8-729-900-36 8-729-900-36 8-729-105-73	TRANSISTOR DTC124ES TRANSISTOR DTA124ES TRANSISTOR DTC124ES TRANSISTOR DTC124ES TRANSISTOR 2SK523-L2	
D1517 D1518 D1521 D1522	8-719-918-77 8-719-918-77 8-719-911-19 8-719-000-12	DIODE V19G DIODE V19G DIODE 1SS119 DIODE MC931	Q1517   Q1518   Q1519   Q1520   Q1521	8-729-900-36 8-729-900-36 8-729-178-54 8-729-178-54 8-729-117-54	TRANSISTOR DTC124ES TRANSISTOR DTC124ES TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SA1175	
	FUS	<u>E</u>	Q1522	8-729-177-43 8-729-103-43	TRANSISTOR 2SD774 TRANSISTOR 2SB734	
F501 A	1-532-285-11 1-533-189-11	FUSE, TIME-LAG 1.25A/250V HOLDER, FUSE; F501	42020		ISTOR	
	<u> 10</u>			1-247-725-11	CARBON 10K 5% 1/	
IC501 IC502 IC551	8-759-100-60 8-759-170-12 8-759-105-82 3-701-833-01	IC UPC1378H-P		1-249-422-11 1-249-411-11 1-247-702-11 1-247-700-11	CARBON 330 5% 1/1 CARBON 150 5% 1/1	6W 4W
IC552	8-759-145-58	HEAD, WASHER, TAPPING SCREW; IC551 IC UPC4558C	1 1/207	1-246-536-00 1-249-462-11	CARBON 430K 5% 1/4 CARBON 22K 5% 1/4	
IC1511	8-759-145-58 8-759-145-58 8-759-909-70	IC UPC4558C	R509   R510   R511	1-249-433-11 1-247-881-00 1-247-868-00	CARBON 22K 5% 1/0 CARBON 12OK 5% 1/0	6W 6W
	<u>coi</u>	<u>L</u>	R512 R513	1-249-411-11 1-249-468-11		
L552 L555 L556	1-408-227-00 1-407-699-00	COIL (WITH CORE) MICRO INDUCTOR 470UH MICRO INDUCTOR 33UH	R514 R515 R516	1-247-723-11 1-249-459-11 1-249-435-11	CARBON 6.8K 5% 1/4 CARBON 12K 5% 1/4 CARBON 33K 5% 1/4	4W 4W 6W
L558 L559 L560	1-407-365-00 1-407-364-00 1-407-695-00	COIL, FERRITE CHOKE  COIL, CHOKE COIL, SPOOK CHOKE 3.3UH MICRO INDUCTOR 15UH MICRO INDUCTOR 4.7MMH	R517   R518   R519   R520   R521	1-249-407-11 1-247-701-11 1-247-849-00 1-249-419-11 1-249-417-11	CARBON         150         5%         1/0           CARBON         120         5%         1/1           CARBON         5.6K         5%         1/0           CARBON         1.5K         5%         1/0           CARBON         1K         5%         1/0	4W F 6W 6W
		COIL, DYNAMIC CONVERSION CHOKE	R522	1-249-439-11	CARBON 68K 5% 1/0	6 <b>W</b>

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.



# D HD HC K

Ref.No. Part No. Description	<u>Remark</u>	Ref.No. Part No. Description	Remark	Ref.No. Part No. Description Remark Remark	ef.No. Part No. Description Remark
R524 1-214-756-00 METAL R525 1-249-429-11 CARBON R526 1-215-876-00 METAL OXIDE	12K 17 1/6W 13K 17 1/4W 10K 5% 1/6W 15K 5% 1W F	R583	22K 5% 1/6W 39K 5% 1/4W 3.3K 5% 1/4W 8.2K 5% 1/6W	R1547 1-249-429-11 CARBON 10K 5% 1/6W   R1548 1-215-493-00 CARBON 1M 5% 1/6W   R1550 1-247-895-00 CARBON 470K 5% 1/6W   R1551 1-249-437-11 CARBON 47K 5% 1/6W   R1552 1-247-849-00 CARBON 5.6K 5% 1/6W	*A-1375-066-A HC BOARD, COMPLETE *********  CAPACITOR
R528 1-249-405-11 CARBON R529 1-214-743-00 METAL R530 1-214-753-00 METAL R534 1-214-747-00 METAL	390 5% 1/6W 100 5% 1/6W 3.9K 1% 1/4W 10K 1% 1/4W 5.6K 1% 1/4W 3.9K 5% 1/6W	R587	120K 5% 1/4W  2.7K 5% 1/6W 3.9K 5% 1/6W 2.2K 5% 1/6W 2.2K 5% 1W F 1K 5% 1/6W F	R1553 1-247-881-00 CARBON 120K 5% 1/6W   R1558 1-247-887-00 CARBON 220K 5% 1/6W   R1559 1-249-441-11 CARBON 100K 5% 1/6W	C982 1-130-023-00 FILM 0.0027MF 5% 50V C983 1-130-028-00 FILM 0.0068MF 5% 50V C984 1-108-837-00 MYLAR 0.01MF 10% 50V C985 1-123-617-00 ELECT 10MF 20% 16V C986 1-123-356-00 ELECT 10MF 20% 25V
R536 1-247-849-00 CARBON R537 1-249-429-11 CARBON R538 1-216-350-11 METAL OXIDE R539 1-249-413-11 CARBON	5.6K 5% 1/6W 10K 5% 1/6W 1.2 5% 1W F 470 5% 1/6W 51K 5% 1/6W	R594	33K 5% 1/6W 2.2K 5% 1/6W 1.8K 5% 1/6W 22O 5% 1/6W 150K 5% 1/4W	R1565 1-216-349-00 METAL OXIDE 1 5% 1W F R1566 1-216-430-11 METAL OXIDE 390 5% 1W F R1567 1-216-430-11 METAL OXIDE 390 5% 1W F	DIODE  D971 8-719-109-85 DIODE RD5.1ES-B2  CONNECTOR  HC1 *1-566-057-11 PIN, CONNECTOR 5P
R542 1-214-779-00 METAL R543 1-215-493-00 CARBON R544 1-214-781-00 METAL	10K 5% 1/6W 120K 1% 1/4W 1M 5% 1/6W 150K 1% 1/4W 33K 1% 1/4W	R599	15K 5% 1/6W 100K 1% 1/6W 18K 1% 1/6W 5.6K 5% 1/4W F 1K 5% 1W F	R1568 1-249-419-11 CARBON 1.5K 5% 1/6W   R1569 1-249-417-11 CARBON 1K 5% 1/6W	HC2 *1-566-056-11 PIN, CONNECTOR 4P HC3 *1-566-054-11 PIN, CONNECTOR 2P HC4 *1-566-054-11 PIN, CONNECTOR 2P  IC
R547 1-249-429-11 CARBON R548 1-249-421-11 CARBON R549 1-247-704-11 CARBON	3.9K 5% 1/6W 10K 5% 1/6W 2.2K 5% 1/6W 220 5% 1/4W 10 1% 1/4W	R1510	10K 5% 1/6W 47K 5% 1/6W 10K 5% 1/6W 22K 5% 1/6W 12K 5% 1/6W	R1583 1-249-429-11 CARBON 10K 5% 1/6W   R1584 1-249-413-11 CARBON 470 5% 1/6W   R1585 1-249-417-11 CARBON 1K 5% 1/6W   R1586 1-247-713-11 CARBON 1K 5% 1/4W	IC985 8-759-933-23 IC BA236  RESISTOR  R982 1-249-429-11 CARBON 10K 5% 1/6W R983 1-249-417-11 CARBON 1K 5% 1/6W
R554 1-246-533-00 CARBON R555 1-249-431-11 CARBON R556 1-246-523-00 CARBON	390 5% 1/2W 330K 5% 1/4W 15K 5% 1/6W 120K 5% 1/4W 18K 5% 1/6W	R1518	4.7K 5% 1/6W 10K 5% 1/6W 470K 5% 1/6W 10K 5% 1/6W 220 5% 1/6W	R1588 1-249-416-11 CARBON 820 5% 1/6W  VARIABLE RESISTOR  RV501 1-228-723-00 RES, ADJ, CERAMIC CARBON 4.7K	R984 1-249-429-11 CARBON 10K 5% 1/6W R985 1-249-417-11 CARBON 1K 5% 1/6W R986 1-249-429-11 CARBON 10K 5% 1/6W R988 1-249-405-11 CARBON 10O 5% 1/6W R989 1-249-417-11 CARBON 1K 5% 1/6W
R559 <b>1-215-479-00</b> CARBON R560 <b>1-247-895-00</b> CARBON R561 <b>1-249-429-11</b> CARBON	47K 5% 1/6W 270K 5% 1/6W 470K 5% 1/6W 10K 5% 1/6W 4.7K 5% 1/6W	R1523 1-249-441-11 CARBON   R1524 1-249-437-11 CARBON   R1525 1-249-425-11 CARBON   R1526 1-249-435-11 CARBON   R1527 1-249-421-11 CARBON	100K 5% 1/6W 47K 5% 1/6W 4.7K 5% 1/6W 33K 5% 1/6W 2.2K 5% 1/6W	RV503 1-224-249-XX RES, ADJ, METAL GLAZE 1K RV552 1-228-725-00 RES, ADJ, CERAMIC CARBON 22K RV553 1-228-720-00 RES, ADJ, CERAMIC CARBON 1K RV554 1-228-727-00 RES, ADJ, CERAMIC CARBON 47K	R990 1-249-432-11 CARBON 18K 5% 1/6W R991 1-249-408-11 CARBON 18O 5% 1/6W R992 1-249-427-11 CARBON 6.8K 5% 1/6W R993 1-249-418-11 CARBON 1.2K 5% 1/6W R994 1-249-420-11 CARBON 1.8K 5% 1/6W
R565 1-216-428-00 METAL OXIDE R567 1-249-429-11 CARBON R568 1-247-715-11 CARBON	3.3K 5% 1/4W F 180 5% 1W F 10K 5% 1/6W 1.5K 5% 1/4W F 270 5% 1/6W F	R1528 1-249-438-11 CARBON   R1529 1-249-431-11 CARBON   R1530 1-249-423-11 CARBON   R1532 1-249-431-11 CARBON   R1533 1-249-437-11 CARBON	1/6W 15K 5% 1/6W 3.3K 5% 1/6W 15K 5% 1/6W 4/7K 5% 1/6W	SPARK GAP  SG551 1-519-063-XX DISCHARGING GAP	VARIABLE RESISTOR  RV982 1-237-349-11 RES, VAR, CARBON 10K RV983 1-237-712-11 RES, VAR, CARBON 10K RV984 1-237-712-11 RES, VAR, CARBON 10K
R571 1-247-711-11 CARBON R572 1-249-418-11 CARBON R573 1-216-445-11 METAL OXIDE	1K 5% 1/6W 680 5% 1/4W 1.2K 5% 1/6W 12 5% 2W F 220 5% 1/6W	R1534	47K 5% 1/6W 470 5% 1/6W 1.2K 5% 1/6W 3.3K 5% 1/6W 300K 5% 1/6W	T552 1-437-090-00 HDT T553 1-437-191-11 HCT	RV985 1-237-350-11 RES, VAR, CARBON 20K RV986 1-230-631-11 RES, ADJ, CARBON 22K RV987 1-237-348-11 RES, VAR, CARBON 5K
R576 1-249-427-11 CARBON R577 1-249-429-11 CARBON R578 1-249-411-11 CARBON	10K 5% 1/4W 6.8K 5% 1/6W 10K 5% 1/6W 330 5% 1/6W F 3.3K 5% 1/4W	R1539	10K 5% 1/6W 8.2K 5% 5W F 10K 5% 1/6W 10K 5% 1/6W 75K 5% 1/6W	TH501 1-806-213-00 THERMISTOR TH551 1-800-944-00 THERMISTOR TH-4700	*A-1389-865-A K BOARD, COMPLETE  *********  CAPACITOR
	10K 5% 1/4W F 560 5% 1W F 0.33 5% 1W F	R1544	180K 5% 1/6W 62K 5% 1/6W 270K 5% 1/6W	********	C201 1-124-902-00 ELECT 0.47MF 20% 50V C202 1-124-902-00 ELECT 0.47MF 20% 50V C203 1-123-332-00 ELECT 47MF 20% 16V
				S997 1-570-145-11 SWITCH, SLIDE	

PVM-2130QM RM-668 PVM-2130QM RM-668





Ref.No.	Part No.	Description			Remark	Ref.No	. Part No.	Descripti	<u>on</u>		Remark	Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark	
C 204 C 205 C 206 C 207 C 208	1-123-332-00 1-106-222-00 1-102-125-00 1-102-125-00 1-106-222-00	MYLAR CERAMIC CERAMIC	47MF 0.12MF 0.0047MF 0.0047MF 0.12MF	20% 10% 10% 10% 10%	16 V 100 V 50 V 50 V 100 V	Q201 Q207	8-729-178-54 8-729-177-43					D920 D921 D922 D923 D924	9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01	LED TLY263P LED TLY263P LED TLY263P				D946 D947 D948	8-719-911-19 8-719-911-19 8-719-911-19 9-990-901-01 9-990-901-01	DIODE 1SS119 DIODE 1SS119 LED TLS263P				
C209 C210 C211 C212 C213	1-123-369-00 1-123-369-00 1-123-369-00 1-123-369-00 1-123-321-00	ELECT ELECT ELECT	4.7MF 4.7MF 4.7MF 4.7MF 220MF	20% 20% 20% 20% 20%	25 V 25 V 25 V 25 V 25 V 16 V	R201   R202   R203   R204   R205	1-249-441-11 1-249-441-11 1-249-419-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON CARBON	100K 5% 100K 5% 1.5K 5% 10K 5% 10K 5%	1/6W 1/6W 1/6W		D925 D926 D927 D928 D929	9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01	LED TLY263P LED TLY263P				D952	9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01	LED TLY263P LED TLY263P LED TLY263P				
C214 C215 C218 C219 C221	1-124-905-11 1-124-905-11 1-123-324-00 1-124-445-00 1-124-925-11	ELECT ELECT ELECT	3.3MF 3.3MF 1000MF 100MF 2.2MF	20% 20% 20% 20% 20%	50V 50V 16V 16V 50V	R206   R207   R208   R209   R210	1-249-429-11 1-249-419-11 1-249-419-11 1-249-432-11 1-249-432-11	CARBON CARBON CARBON CARBON	10K 5% 1.5K 5% 1.5K 5% 1.5K 5% 18K 5%	1/6W 1/6W 1/6W 1/6W		D 930 D 931 R 905	9-990-893-01 9-990-893-01 RE:	LED TLY263P	100			D955   D956   D957   D958   D959	9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01	LED TLY263P LED TLY263P LED TLY263P LED TLY263P				
C222 C224 C226 C227 C228	1-123-332-00 1-124-925-11 1-123-356-00 1-123-349-00 1-108-633-81	ELECT ELECT ELECT	47MF 2.2MF 10MF 1000MF 0.039MF	20% 20% 20% 20% 10%	16V 50V 25V 35V 100V	R212   R213   R221   R223	1-249-425-11 1-249-405-11 1-215-865-11 1-247-881-00 1-249-412-11	CARBON CARBON METAL OXI CARBON	4.7K 5% 100 5%	1/6W 1/6W 1W 1/6W	F	R906 R907 R908 R909	1-247-704-11 1-247-700-11 1-247-704-11 1-247-700-11	CARBON CARBON CARBON	100 220 100	5% 1/ 5% 1/ 5% 1/ 5% 1/ 5% 1/	IW IW	D960   D961   D962   D963   D964	9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01	LED TLY263P LED TLY263P LED TLY263P				
C229 C230 C231 C232 C233	1-124-908-11 1-106-222-00 1-123-336-00 1-108-633-81 1-124-908-11	MYLAR ELECT MYLAR	22MF 0.12MF 470MF 0.039MF 22MF	20% 10% 20% 10% 20%	25V 100V 25V 100V 25V	R224 R226 R227 R228 R229	1-247-881-00 1-249-412-11 1-249-429-11 1-249-385-11	CARBON CARBON CARBON CARBON	120K 5% 390 5% 10K 5% 2.2 5%	1/6W 1/6W 1/6W 1/6W	F	R911 R912 R913 R914	1-247-700-11 1-247-704-11 1-247-700-11 1-247-704-11	CARBON CARBON CARBON CARBON	100 220 100 220	5% 1/ 5% 1/ 5% 1/ 5% 1/	1 W 1 W 1 W 1 W	D965 D968		LED TLS263P SISTOR	100	F~	1.40	
C234 C235 C244 C245 C283	1-106-222-00 1-123-336-00 1-123-332-00 1-124-477-11 1-123-332-00	ELECT ELECT ELECT	0.12MF 470MF 47MF 47MF 47MF	10% 20% 20% 20% 20%	100V 25V 16V 25V 16V	R230 R231 R236 R243 R244	1-249-429-11 1-249-385-11 1-249-423-11 1-249-417-11 1-249-417-11	CARBON CARBON CARBON	10K 5% 2.2 5% 3.3K 5% 1K 5% 1K 5%	1/6W 1/6W 1/6W	F	R915 R916 R917 R918 R919	1-247-700-11 1-247-704-11 1-247-704-11 1-247-704-11 1-247-704-11	CARBON CARBON CARBON CARBON		5% 1/	1 W 1 W 1 W	R943 R944	1-247-703-11 1-247-700-11 1-247-704-11 1-247-700-11 1-247-704-11	CARBON CARBON CARBON CARBON	100 220	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
D201 D202	<u>DI</u> 8-719-101-61 8-719-101-86	ODE DIODE RD6.2 DIODE RD13E	-L2			R245 R246	1-249-417-11 1-249-417-11 ******	CARBON	1K 5% 1K 5%	1/6W		\$905 \$906 \$907 \$908	1-553-766-00 1-553-766-00 1-553-766-00	ITCH  MT SWITCH (K  MT SWITCH (K  MT SWITCH (K  MT SWITCH (K	EY BOARD EY BOARD	SWITCH) SWITCH)		R945   R946   R947   R948   R949	1-247-700-11 1-247-700-11 1-247-700-11 1-247-700-11 1-247-700-11	CARBON CARBON CARBON	100 100 100 100 100	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
D203 D204 D206	8-719-911-19	DIODE 1SS11 DIODE 1SS11 DIODE 1SS11	9				*9-992-308-01	HA BOARD	(KEY BOARD UN	IT A)		\$909	1-553-766-00	MT SWITCH (K	EY BOARD	SWITCH)		R950 R951	1-247-700-11 1-247-700-11		100 100	5% 5%	1/4W 1/4W	
D207 D210 D211	8-719-911-19	DIODE 1SS11 DIODE 1SS11 DIODE 1SS11	9			       D905	<u>DI</u> 8-719-911-19	ODE	:119			S910 S911 S912 S913	1-553-766-00 1-553-766-00 1-553-766-00	MT SWITCH (K MT SWITCH (K MT SWITCH (K	EY BOARD EY BOARD EY BOARD	SWITCH) SWITCH) SWITCH)			<u></u>	ITCH				
D1519	8-719-110-37 <u>IC</u>	DIODE RD13E	:S-B3			D906   D907   D908   D909	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS DIODE 1SS DIODE 1SS	5119 5119 5119			\$914 \$915			EY BOARD	SWITCH)		S941   S942   S943	1-553-766-00 1-553-766-00 1-553-766-00	MT SWITCH (K MT SWITCH (K MT SWITCH (K MT SWITCH (K MT SWITCH (K	CEY BOAR CEY BOAR CEY BOAR	D SWIT D SWIT D SWIT	CH) CH) CH)	
1C201 1C204	8-759-276-30 8-759-205-84	IC TA7273P				D910 D911	8-719-911-19 9-990-893-01	LED TLY26	53P				*9-992-401-01					j   S945	1-553-766-00	MT SWITCH (F	EY BOAR	D SWIT	CH)	
K1 K2	*1-566-054-11	PIN, CONNEC PIN, CONNEC				D912   D913   D914	9-990-893-01 9-990-893-01 9-990-893-01	LED TLY26	53P			<u> </u>		ODE .				S947   S948	1-553-766-00 1-553-766-00	MT SWITCH (F MT SWITCH (F MT SWITCH (F	CEY BOAR CEY BOAR	D SWIT D SWIT	CH) CH)	
K3 K4 K5	*1-566-057-11 *1-508-765-00 *1-560-123-00	PIN, CONNEC 3P PLUG (M)	CTOR 5P	3P		D915 D916 D917 D918 D919	9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01	LED TLY26 LED TLY26 LED TLY26	53P 53P 53P			D940 D941 D942 D943 D944	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119										



Ref.No. Part No.	<u>Description</u> Remark
<b>*9-990-898-0</b>	1 N BOARD (KEY BOARD UNIT B)
<u>I</u>	<u>c</u>
IC935 8-741-138-7	O IC BX1387 (DETECTOR)
******	***********
MISCELLANEOUS ********	
<u> </u>	1 RESISTOR ASSY, HIGH-VOLTAGE 1 COIL, DEMAGNETIZATION 2 TRANSFORMER ASSY, FLYBACK 1 DEFLECTION YOKE (SY-153E) 0 MAGNET, DISK; 10MM Ø
1-452-094-0 1-452-277-0 1-464-803-1 1-464-804-1 1-534-820-1	O MAGNET, BMC KEY BOARD UNIT (A)
S901 A.1-554-965-1 V901 A.8-736-955-0	2 SWITCH, PUSH (AC POWER)(1 KEY) 5 PICTURE TUBE (ASIJKQIOX)
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ACCESSORIES AND PACKING MATERIALS	
Part No.	Description Remark
A-1470-789- *4-377-015-0 *4-382-067-0 *4-382-068-0	1 BAG, PROTECTION 1 CUSHION (UPPER) (ASSY)
*4-383-143-0 4-482-400-11	

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.